



Appendix A

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: POCKET CAMERA

Test Model: M3

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen





A.1 DTS Bandwidth

Test Result

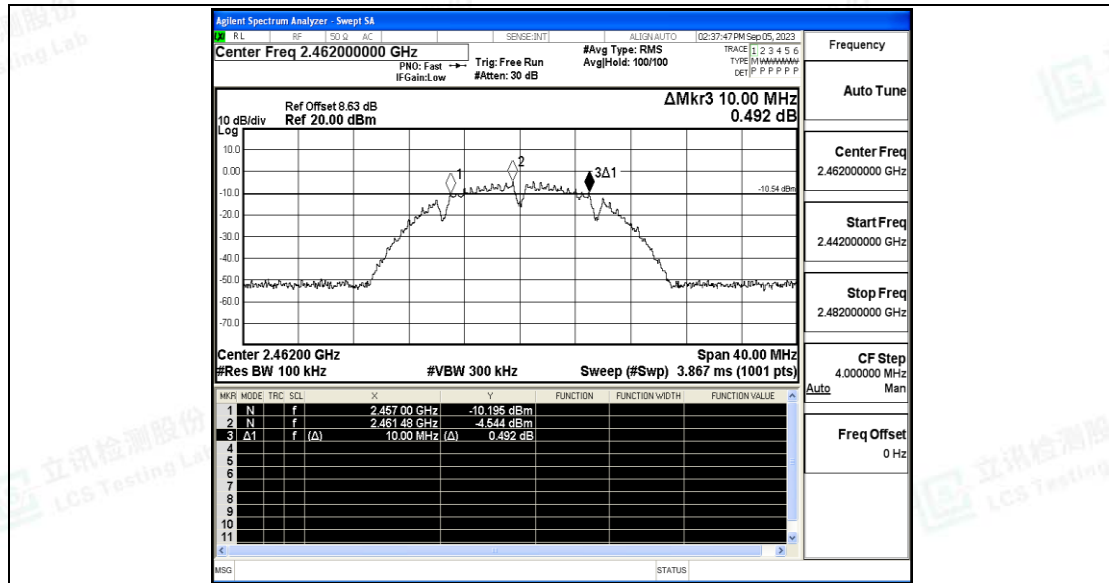
TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.080	2407.480	2416.560	0.5	PASS
		2437	10.040	2432.000	2442.040	0.5	PASS
		2462	10.000	2457.000	2467.000	0.5	PASS
11G	Ant1	2412	16.360	2403.800	2420.160	0.5	PASS
		2437	16.320	2428.840	2445.160	0.5	PASS
		2462	16.360	2453.840	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.200	2420.760	0.5	PASS
		2437	17.600	2428.200	2445.800	0.5	PASS
		2462	17.640	2453.200	2470.840	0.5	PASS
11N40SISO	Ant1	2422	36.320	2403.840	2440.160	0.5	PASS
		2437	35.440	2419.320	2454.760	0.5	PASS
		2452	35.440	2434.080	2469.520	0.5	PASS



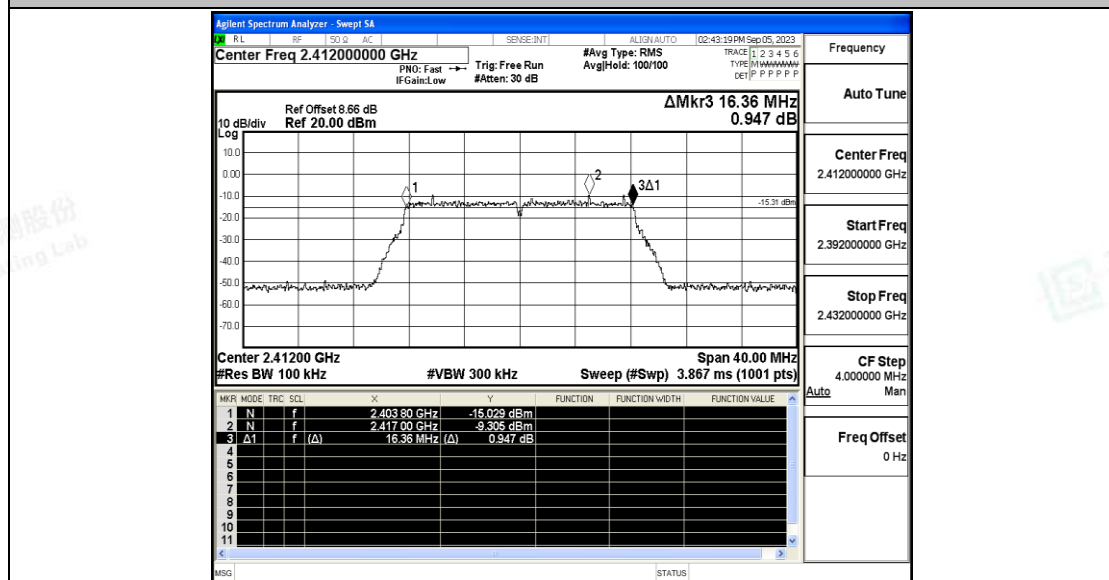


Test Graphs



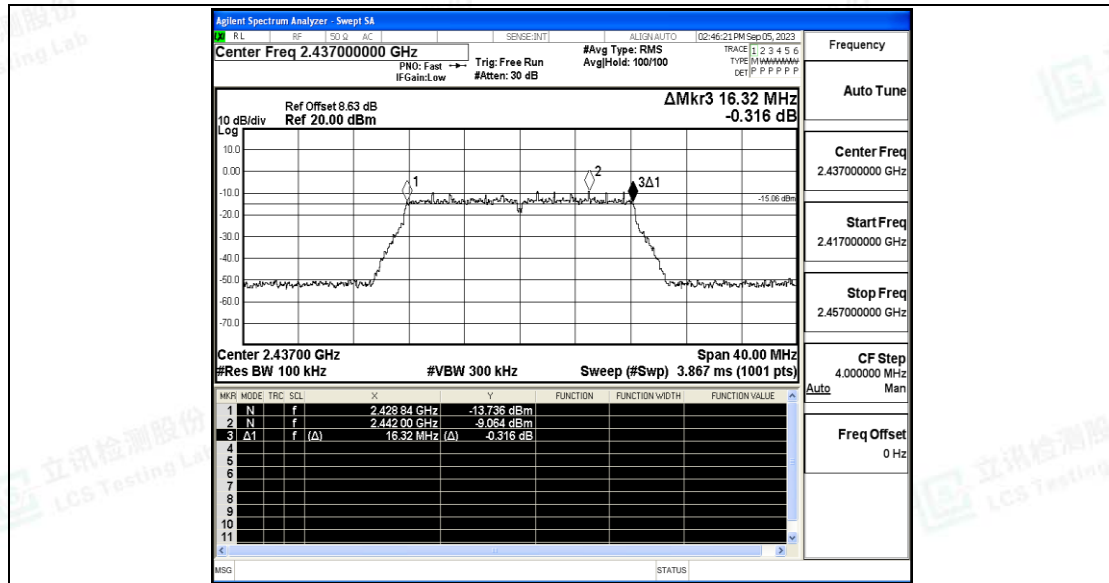


11G_Ant1_2412

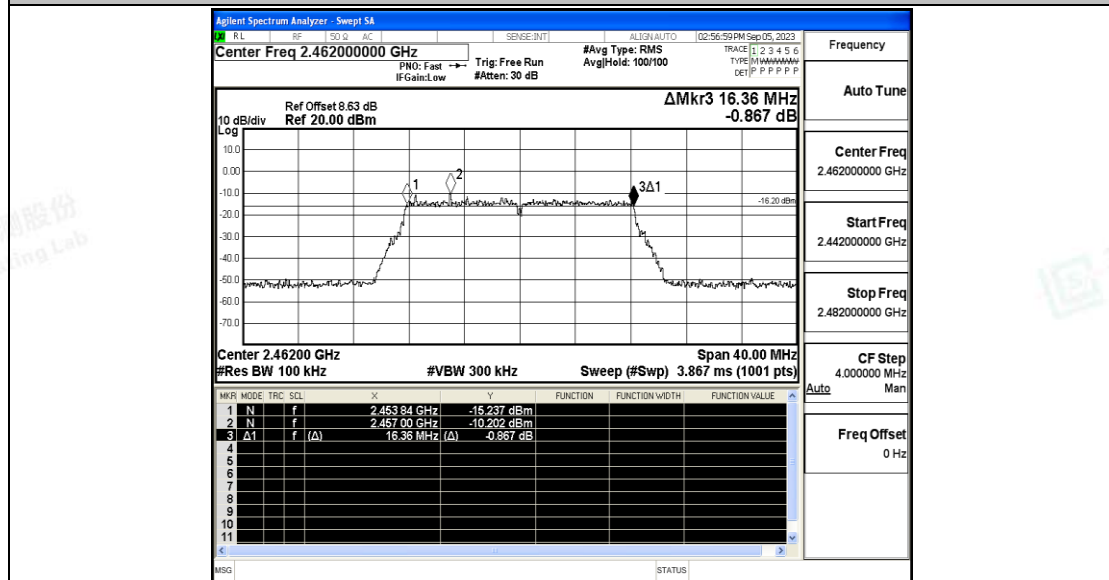


11G_Ant1_2437



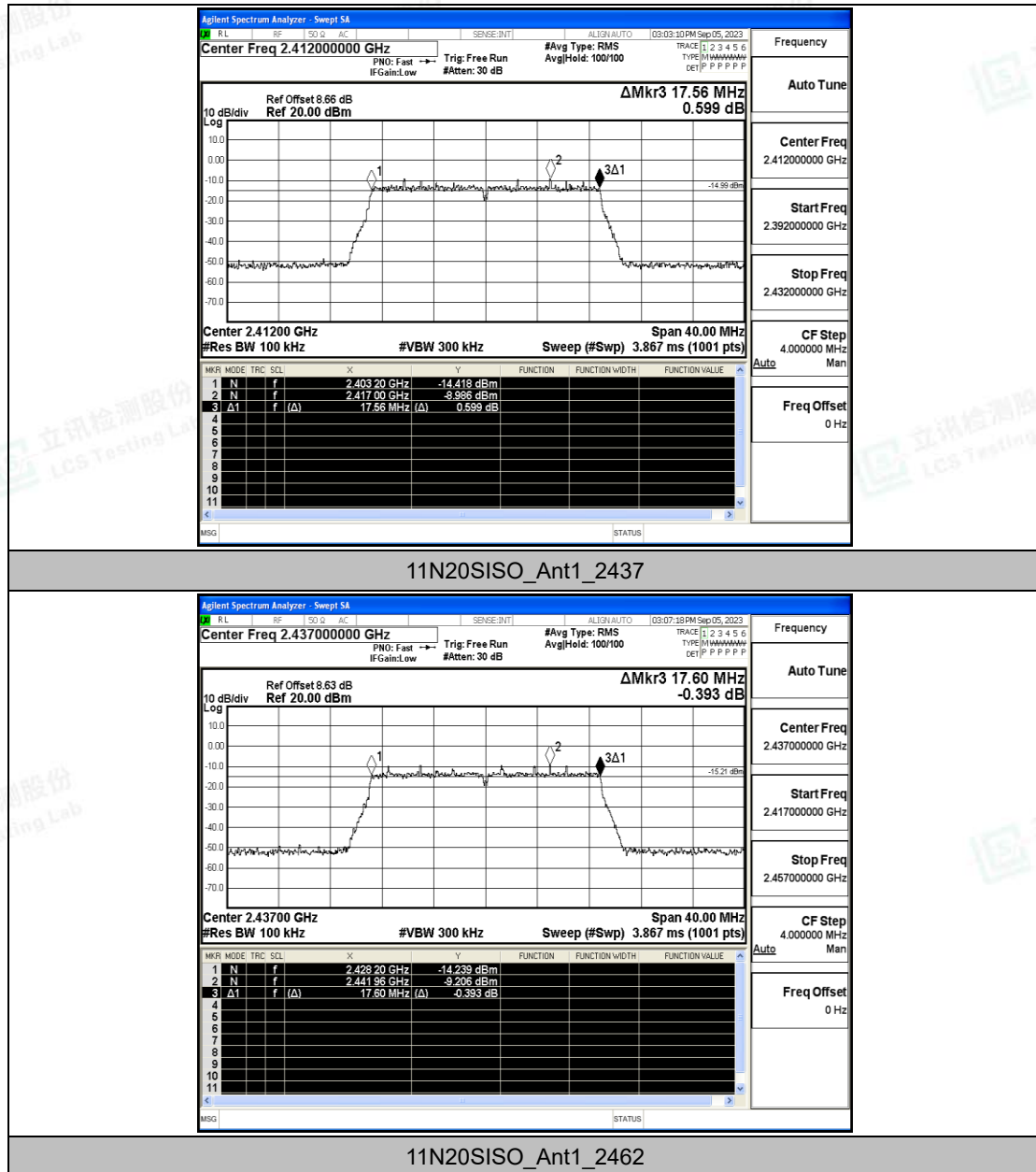


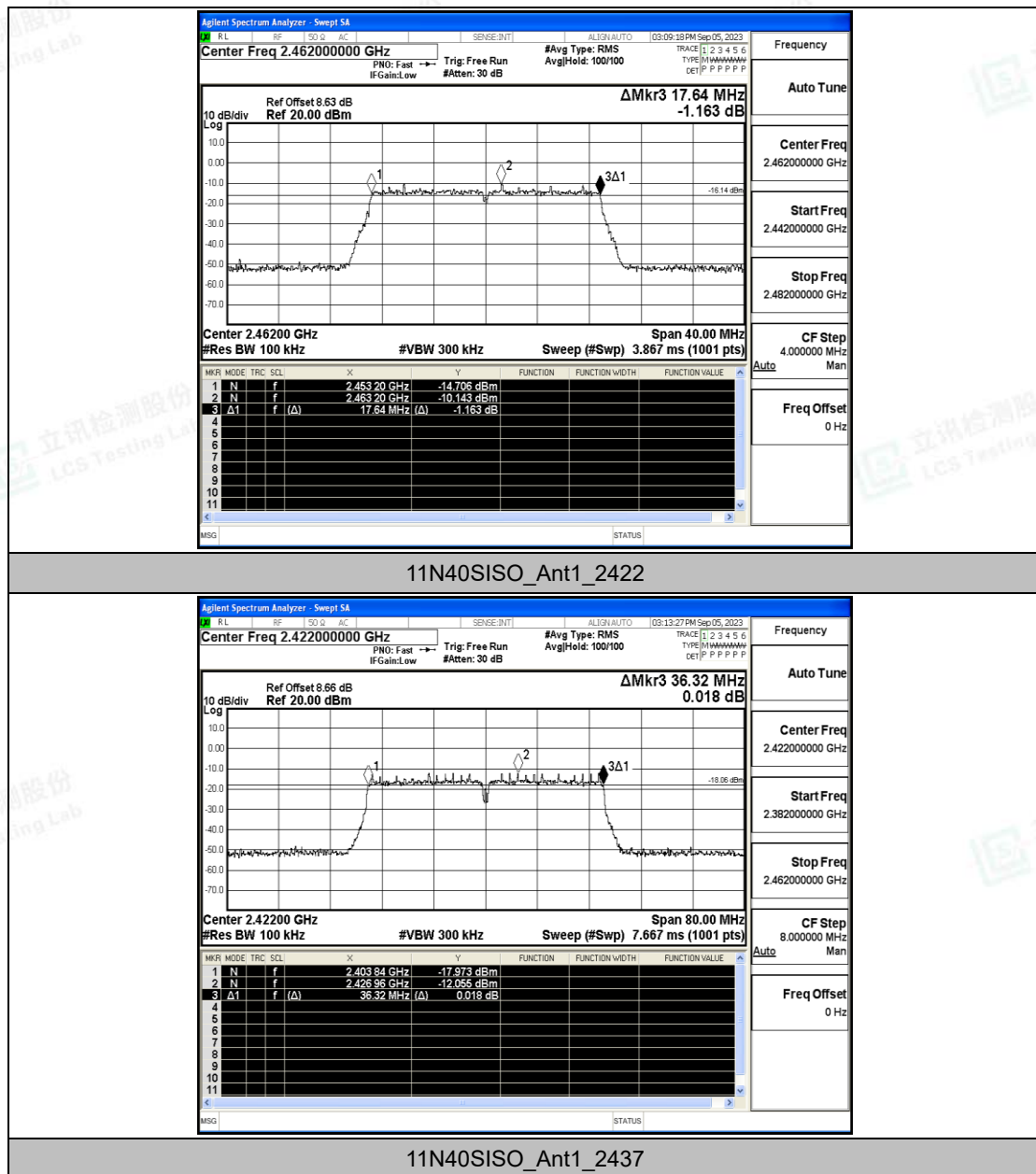
11G_Ant1_2462

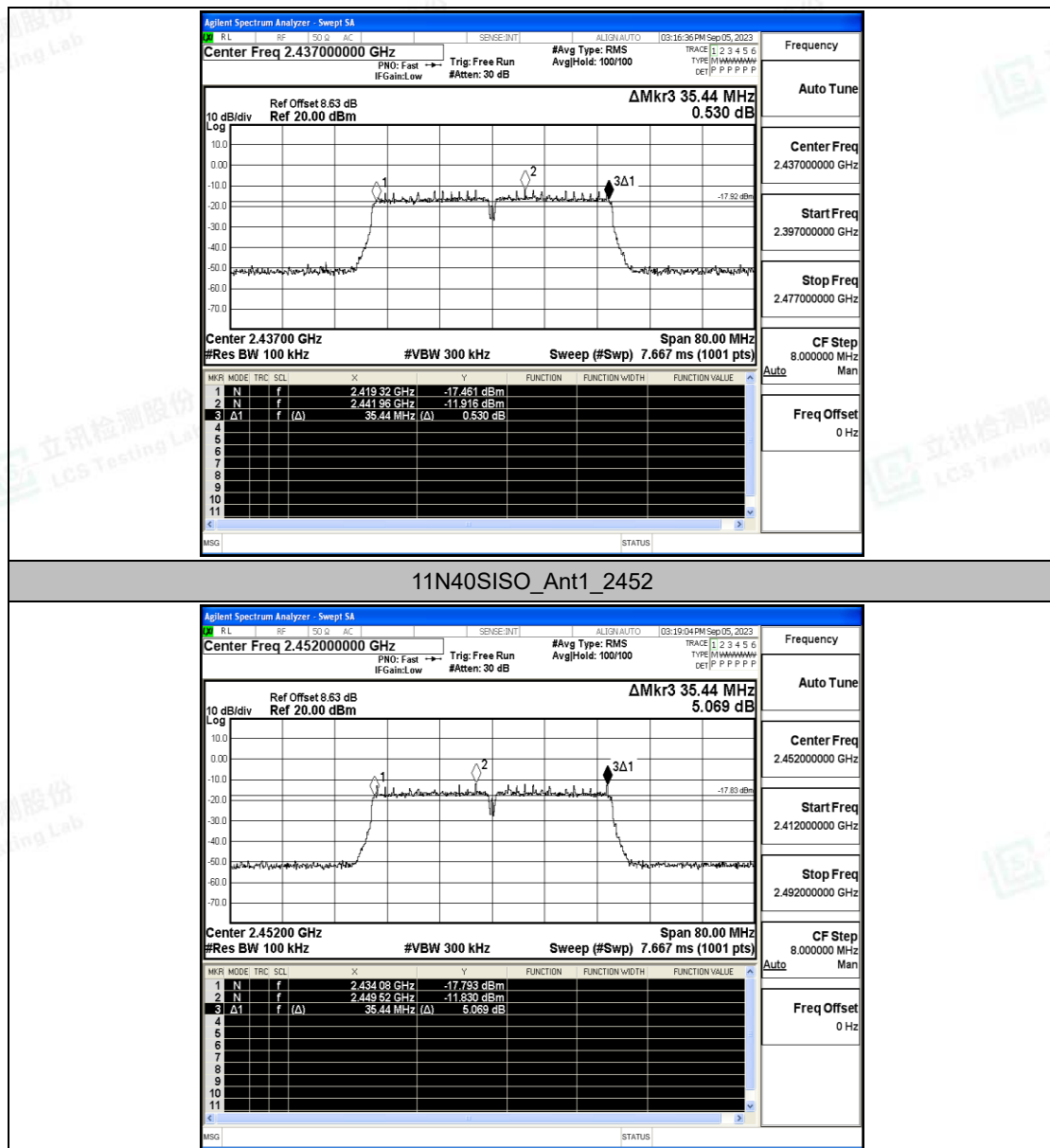


11N20SISO_Ant1_2412









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A.2 Maximum conducted output power

Test Result Peak

TestMode	Antenna	Freq(MHz)	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	8.11	≤30.00	PASS
		2437	7.98	≤30.00	PASS
		2462	7.56	≤30.00	PASS
11G	Ant1	2412	8.66	≤30.00	PASS
		2437	8.58	≤30.00	PASS
		2462	7.48	≤30.00	PASS
11N20SISO	Ant1	2412	8.60	≤30.00	PASS
		2437	8.60	≤30.00	PASS
		2462	8.16	≤30.00	PASS
11N40SISO	Ant1	2422	8.75	≤30.00	PASS
		2437	8.59	≤30.00	PASS
		2452	8.31	≤30.00	PASS





A.3 Maximum power spectral density

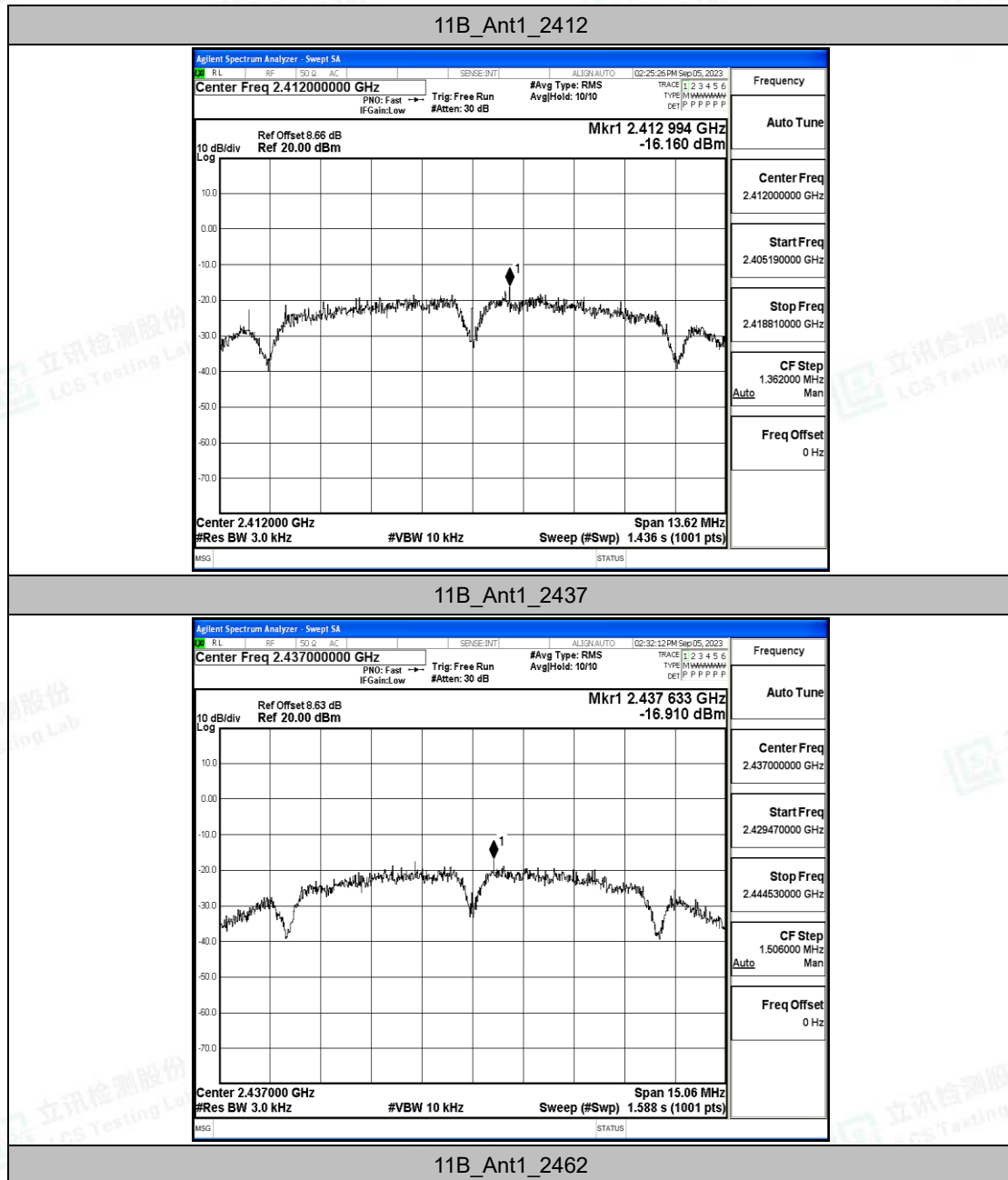
Test Result

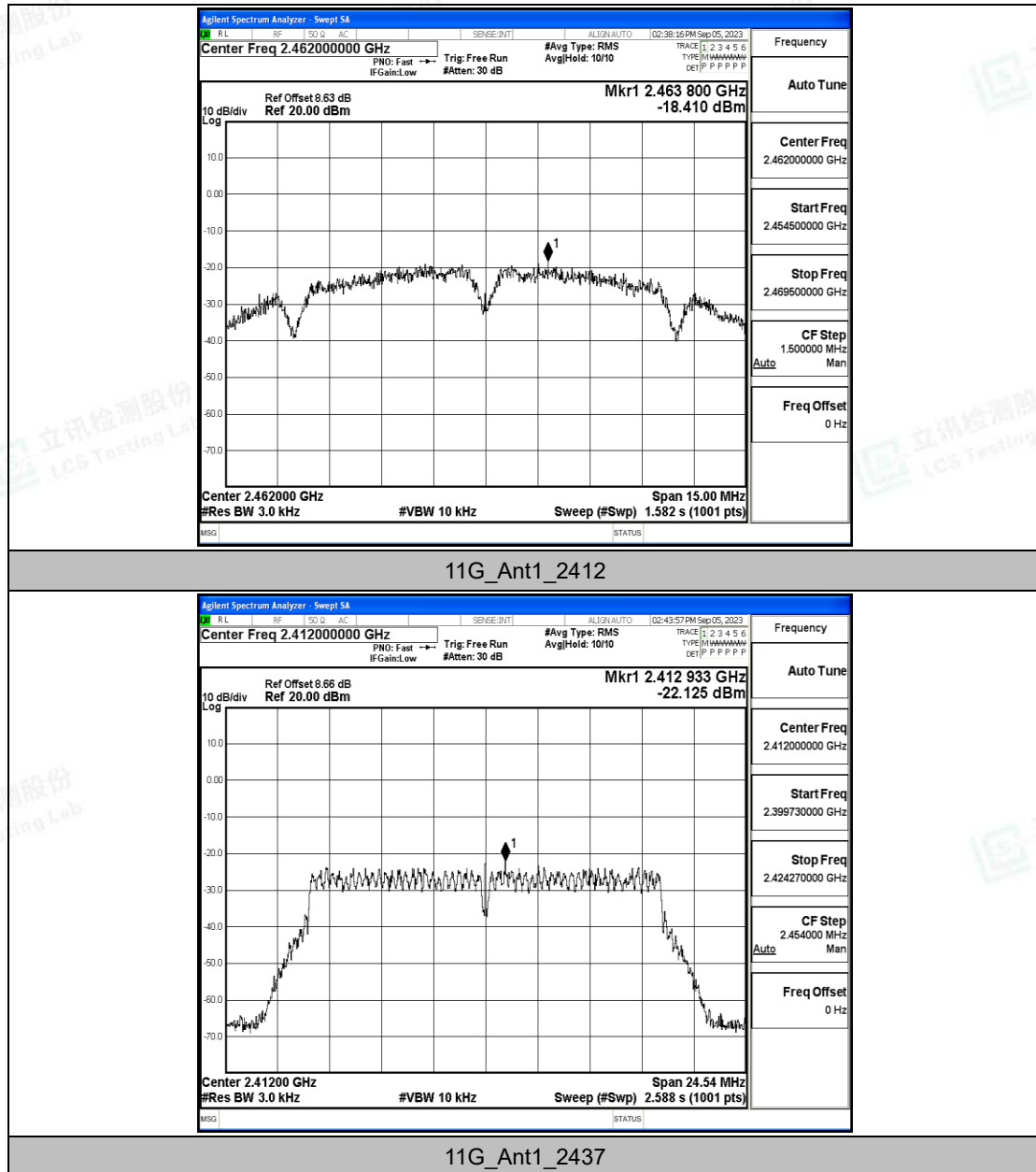
TestMode	Antenna	Freq(MHz)	Result [dBm/3-100kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-16.16	≤8.00	PASS
		2437	-16.91	≤8.00	PASS
		2462	-18.41	≤8.00	PASS
11G	Ant1	2412	-22.13	≤8.00	PASS
		2437	-21.94	≤8.00	PASS
		2462	-21.53	≤8.00	PASS
11N20SISO	Ant1	2412	-23.27	≤8.00	PASS
		2437	-21.47	≤8.00	PASS
		2462	-21.59	≤8.00	PASS
11N40SISO	Ant1	2422	-23.53	≤8.00	PASS
		2437	-22.01	≤8.00	PASS
		2452	-21.87	≤8.00	PASS

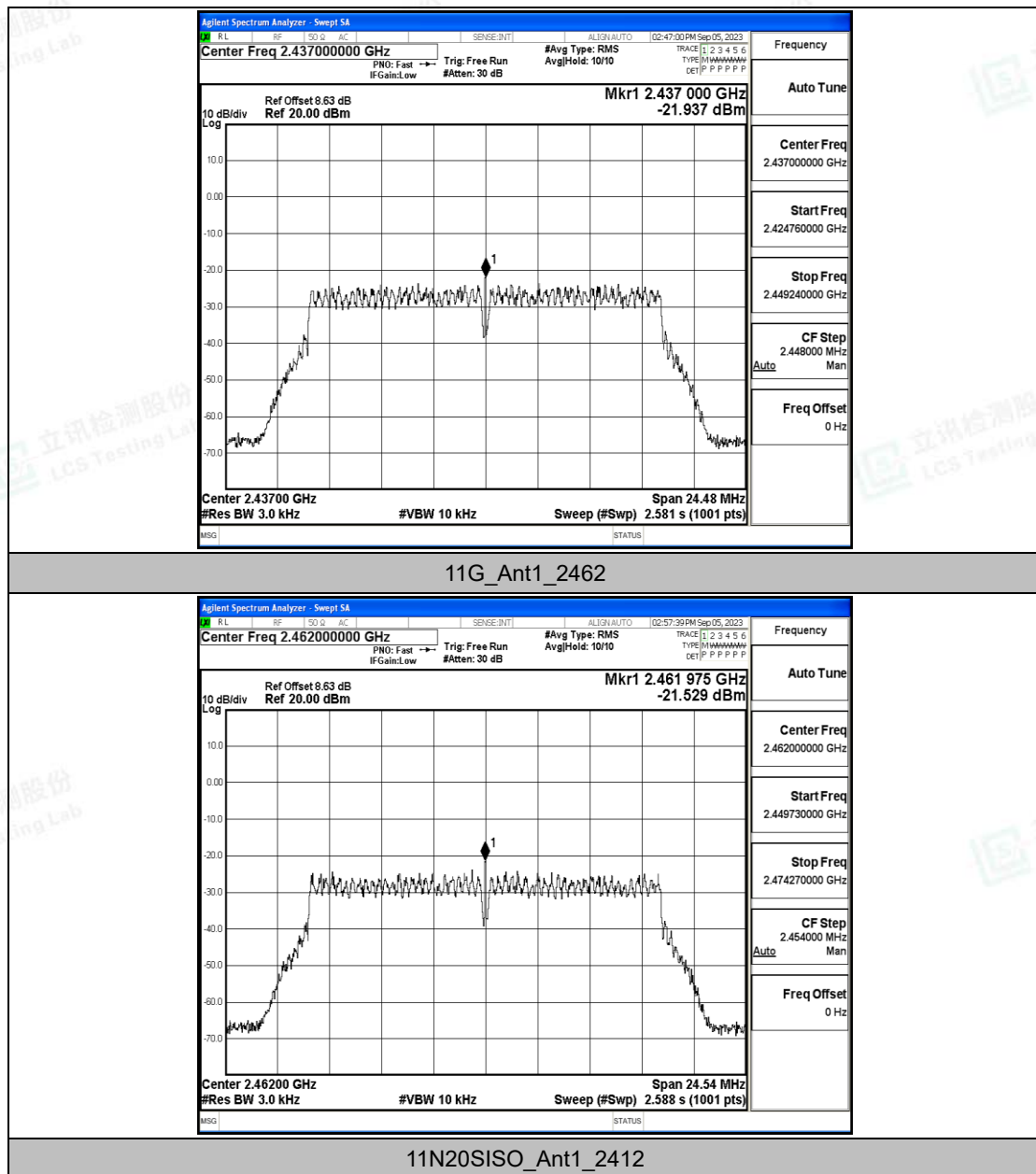


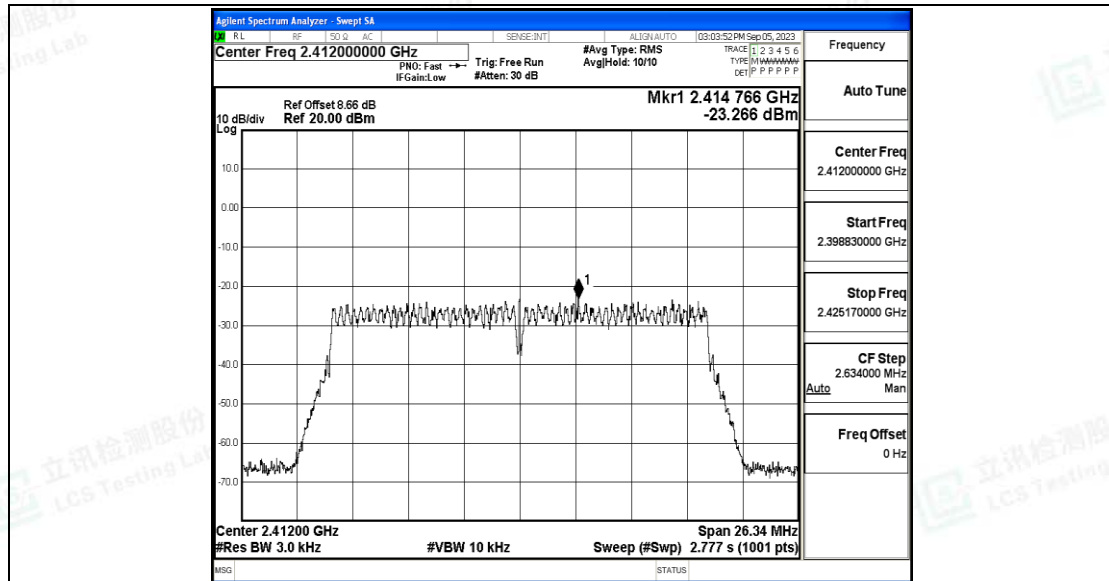


Test Graphs

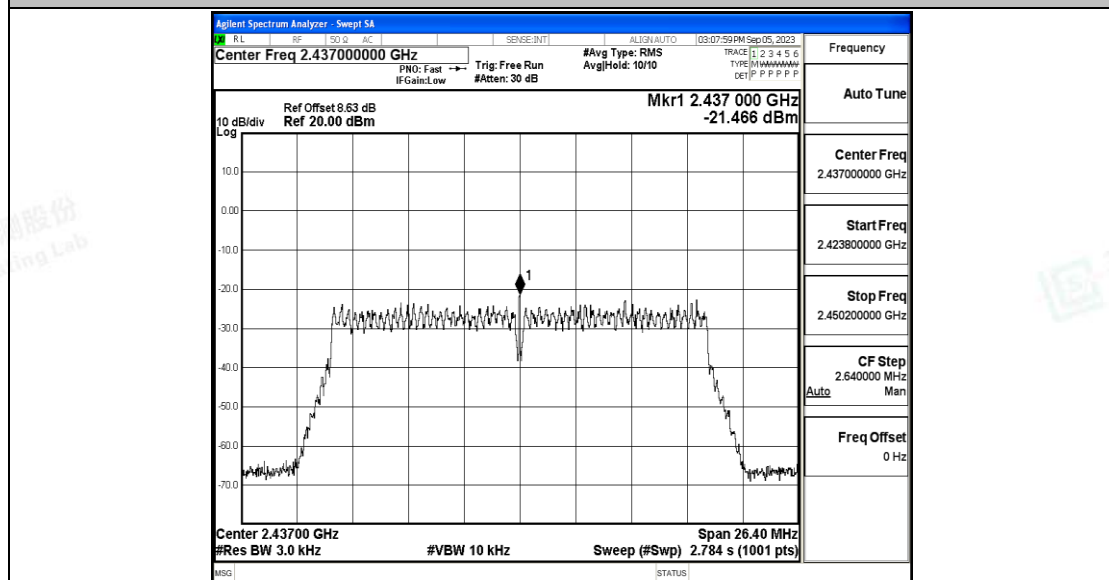






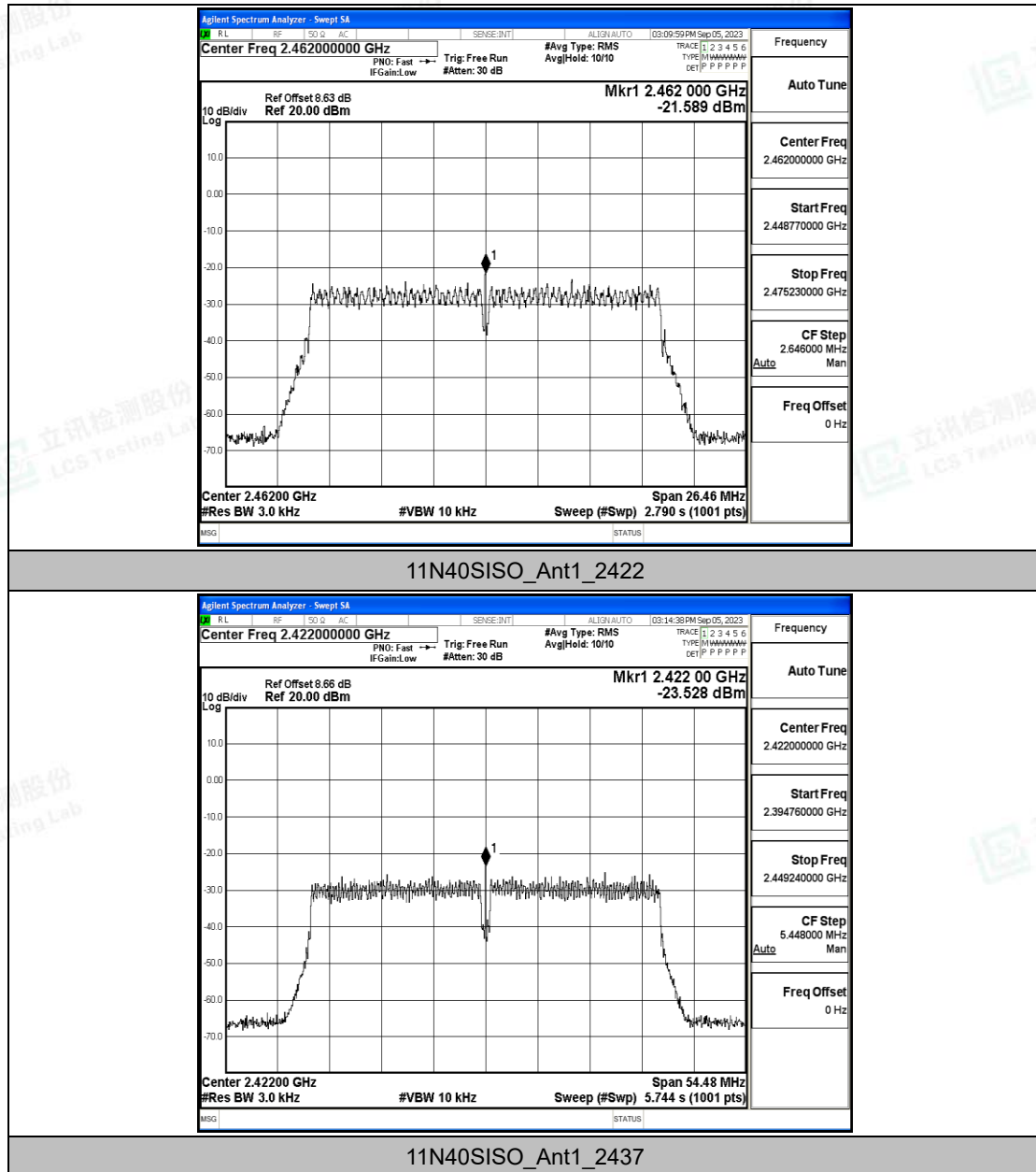


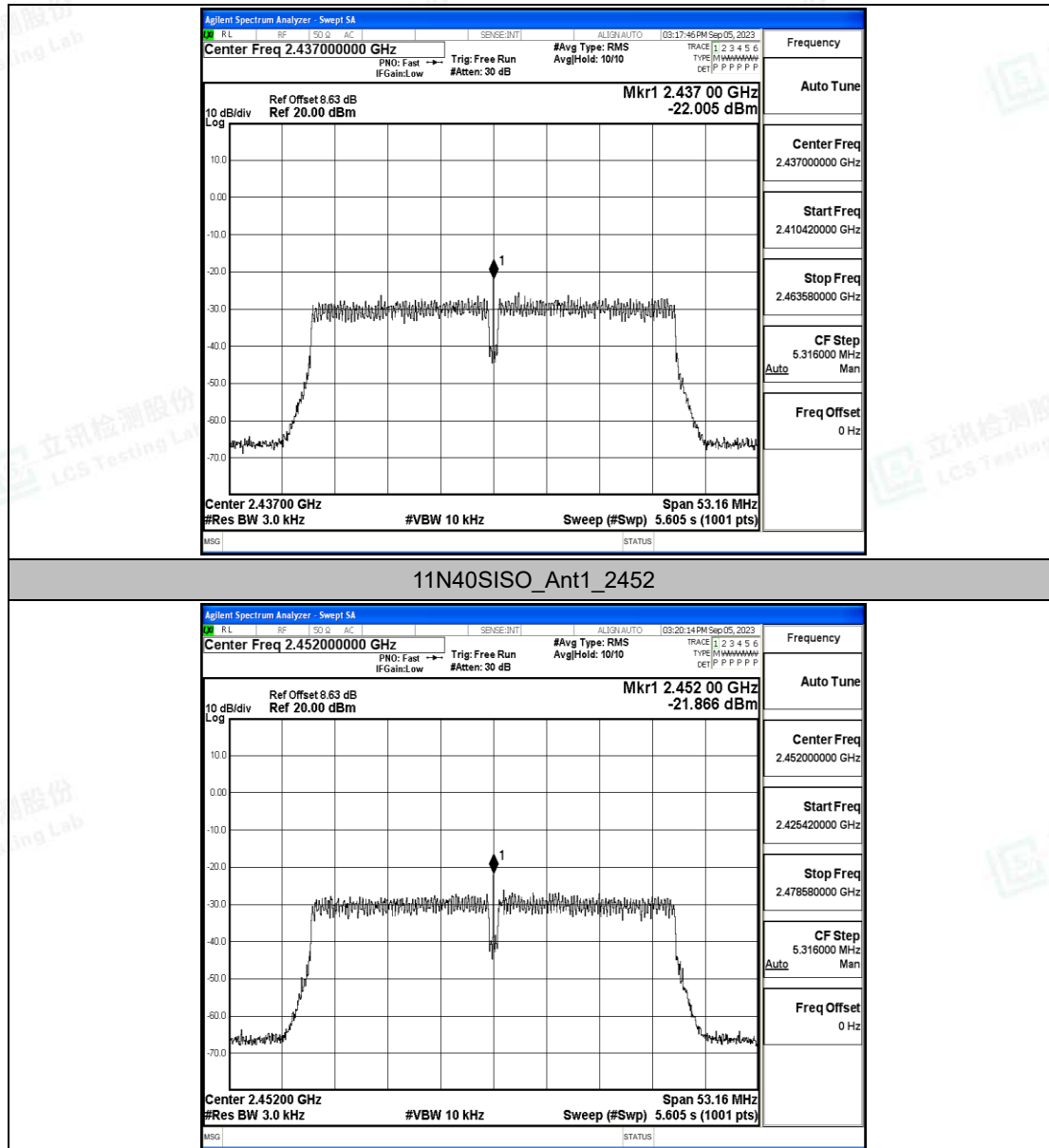
11N20SISO_Ant1_2437



11N20SISO_Ant1_2462









A.4 Band edge measurements

Test Result

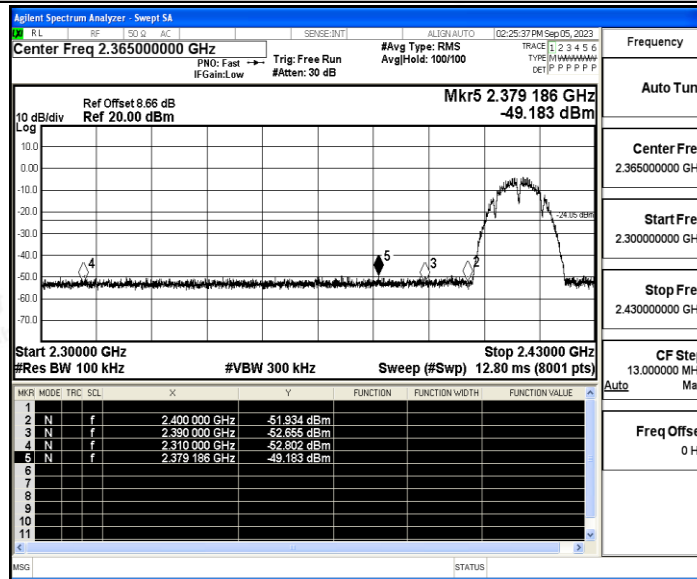
TestMode	Antenna	Channel Name	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-4.05	-49.18	≤-24.05	PASS
		High	2462	-5.09	-48.54	≤-25.09	PASS
11G	Ant1	Low	2412	-9.20	-48.29	≤-29.2	PASS
		High	2462	-10.03	-48.91	≤-30.03	PASS
11N20SISO	Ant1	Low	2412	-9.05	-48.73	≤-29.05	PASS
		High	2462	-9.77	-48.04	≤-29.77	PASS
11N40SISO	Ant1	Low	2422	-12.07	-49.39	≤-32.07	PASS
		High	2452	-12.43	-47.28	≤-32.43	PASS



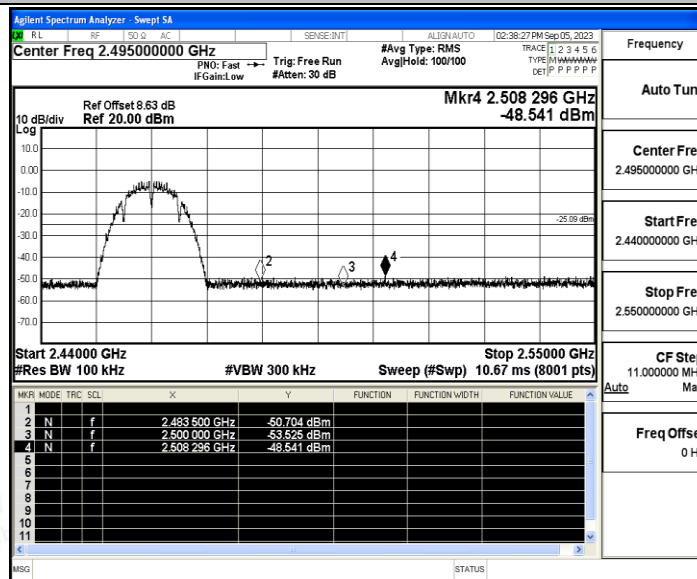


Test Graphs

11B_Ant1_Low_2412

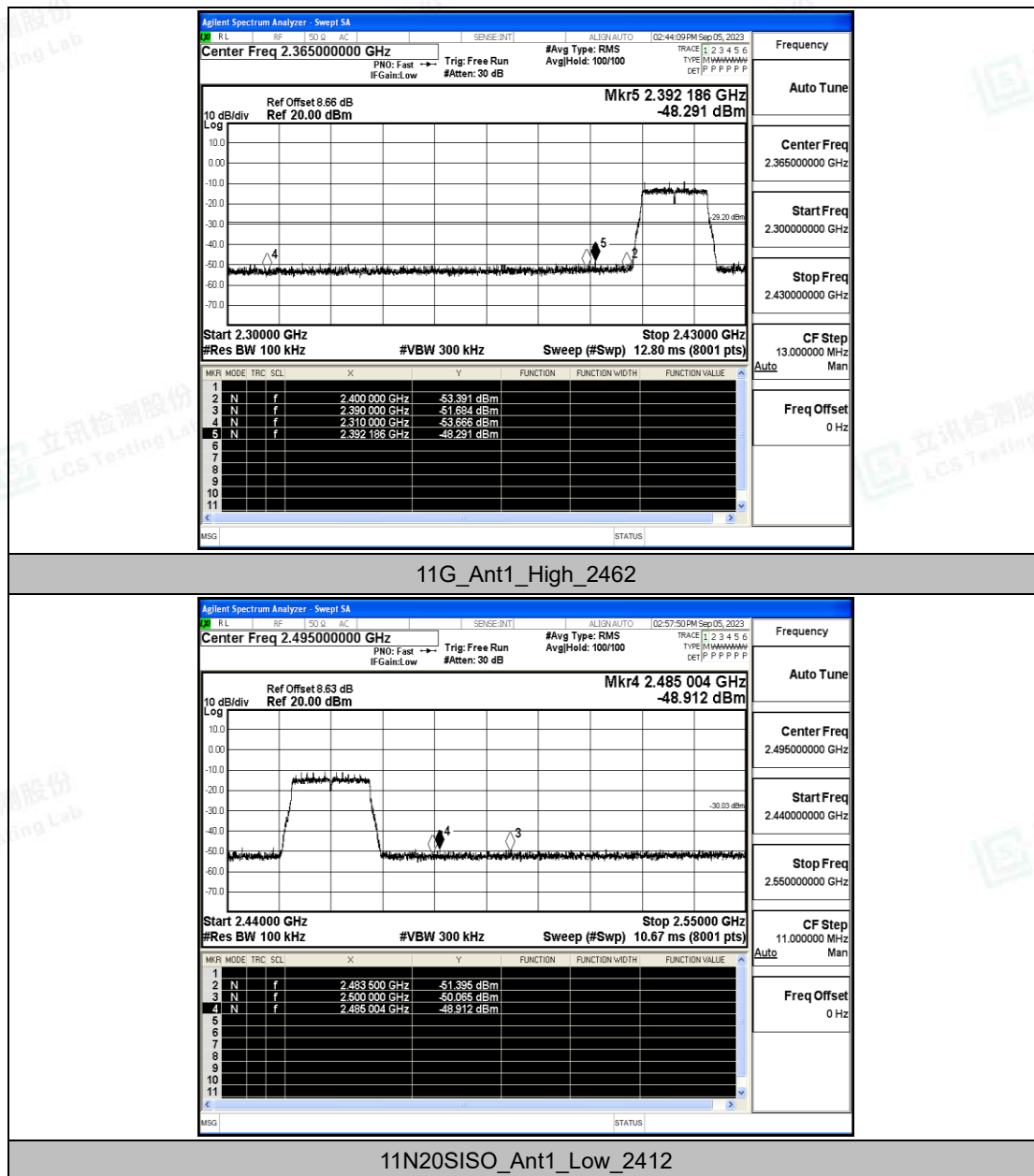


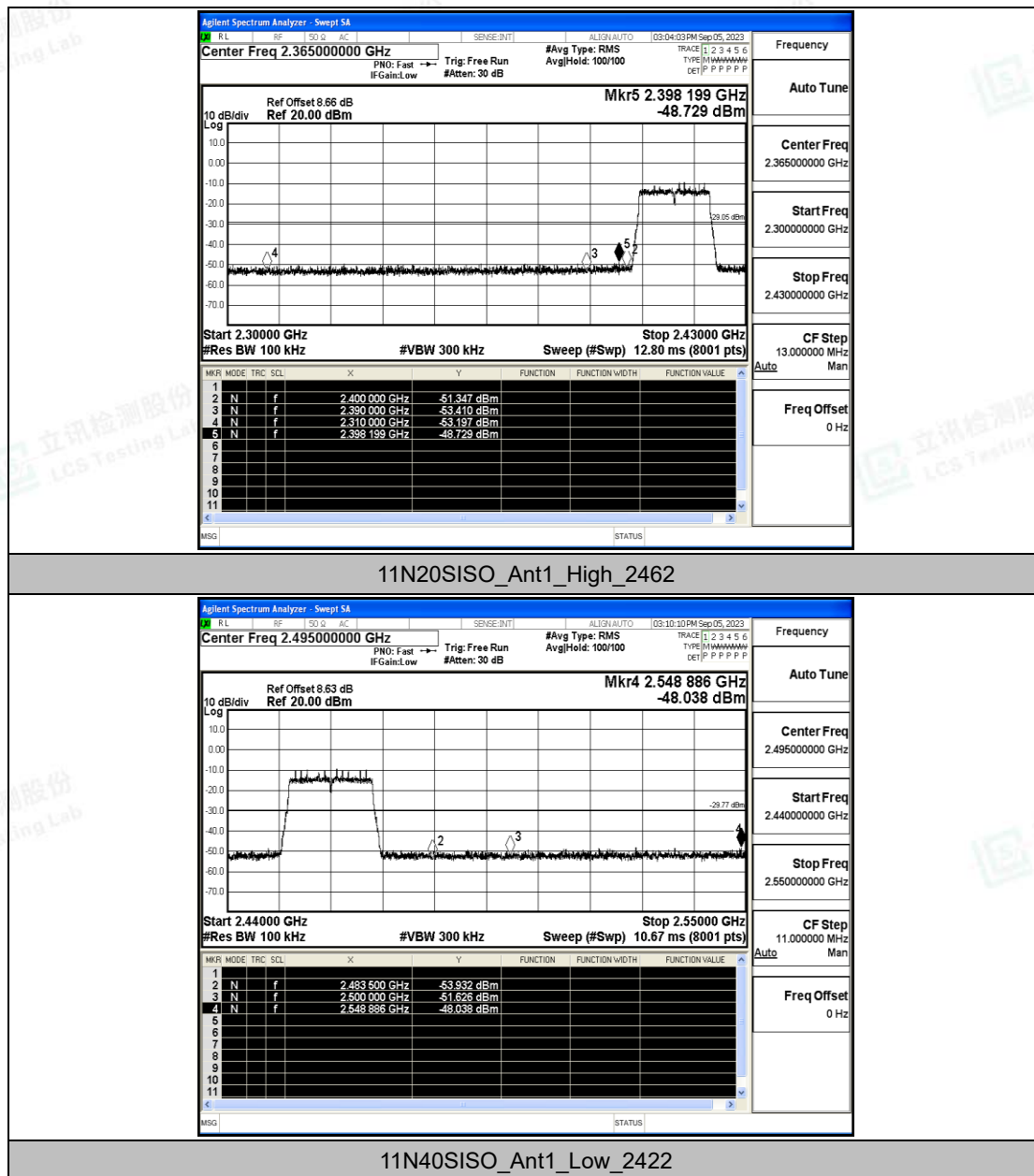
11B_Ant1_High_2462

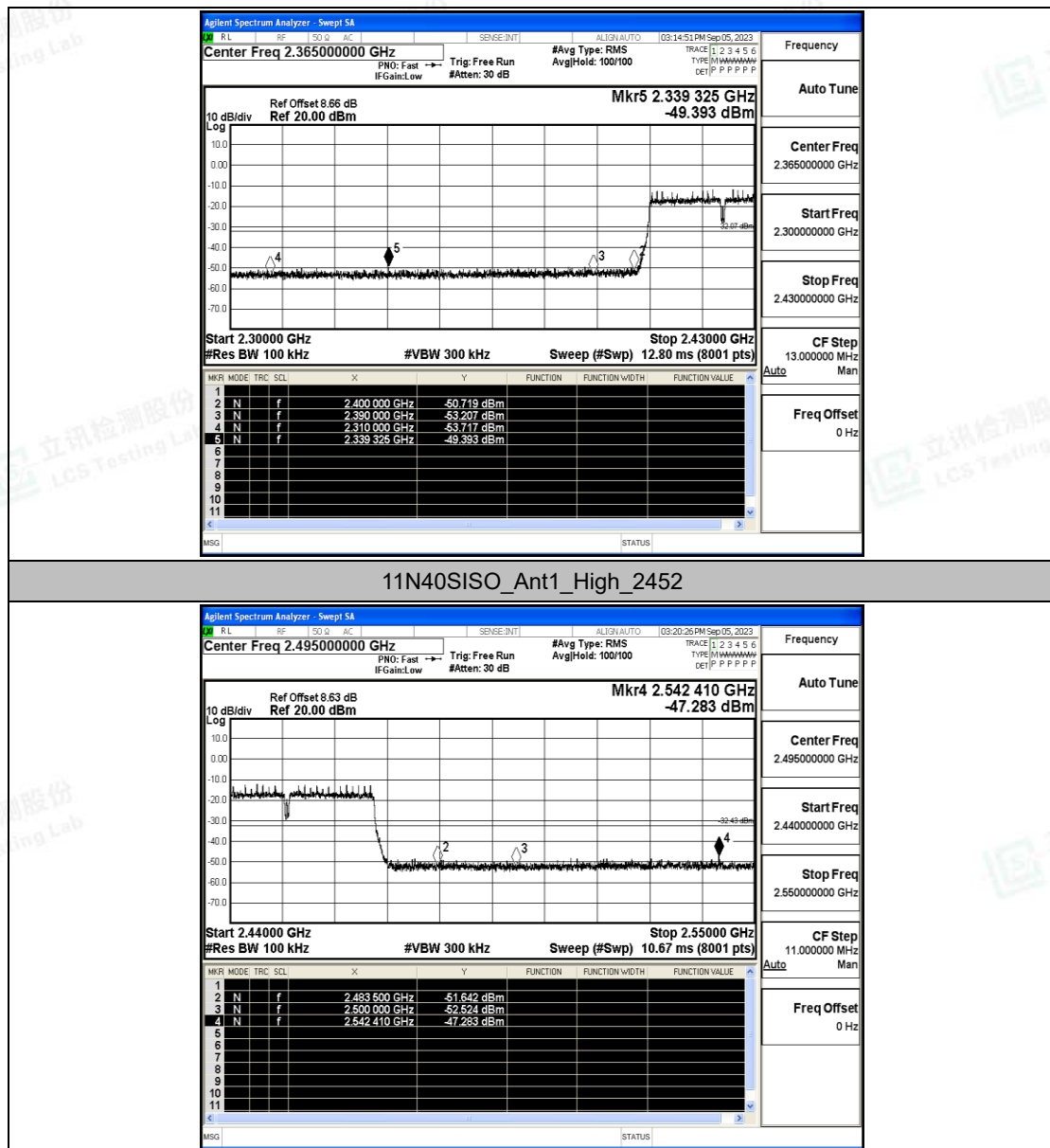


11G_Ant1_Low_2412











A.5 Conducted Spurious Emission

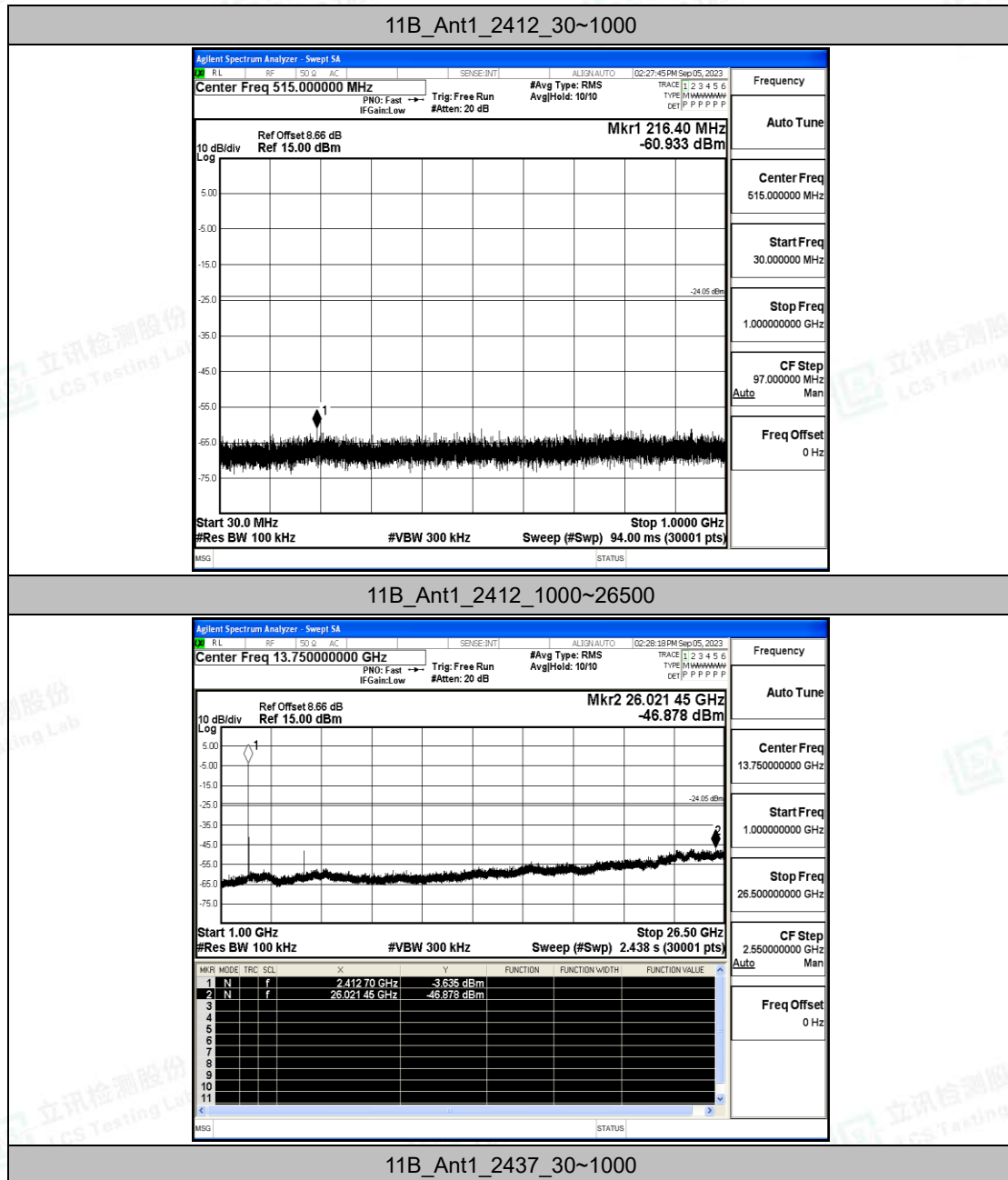
Test Result

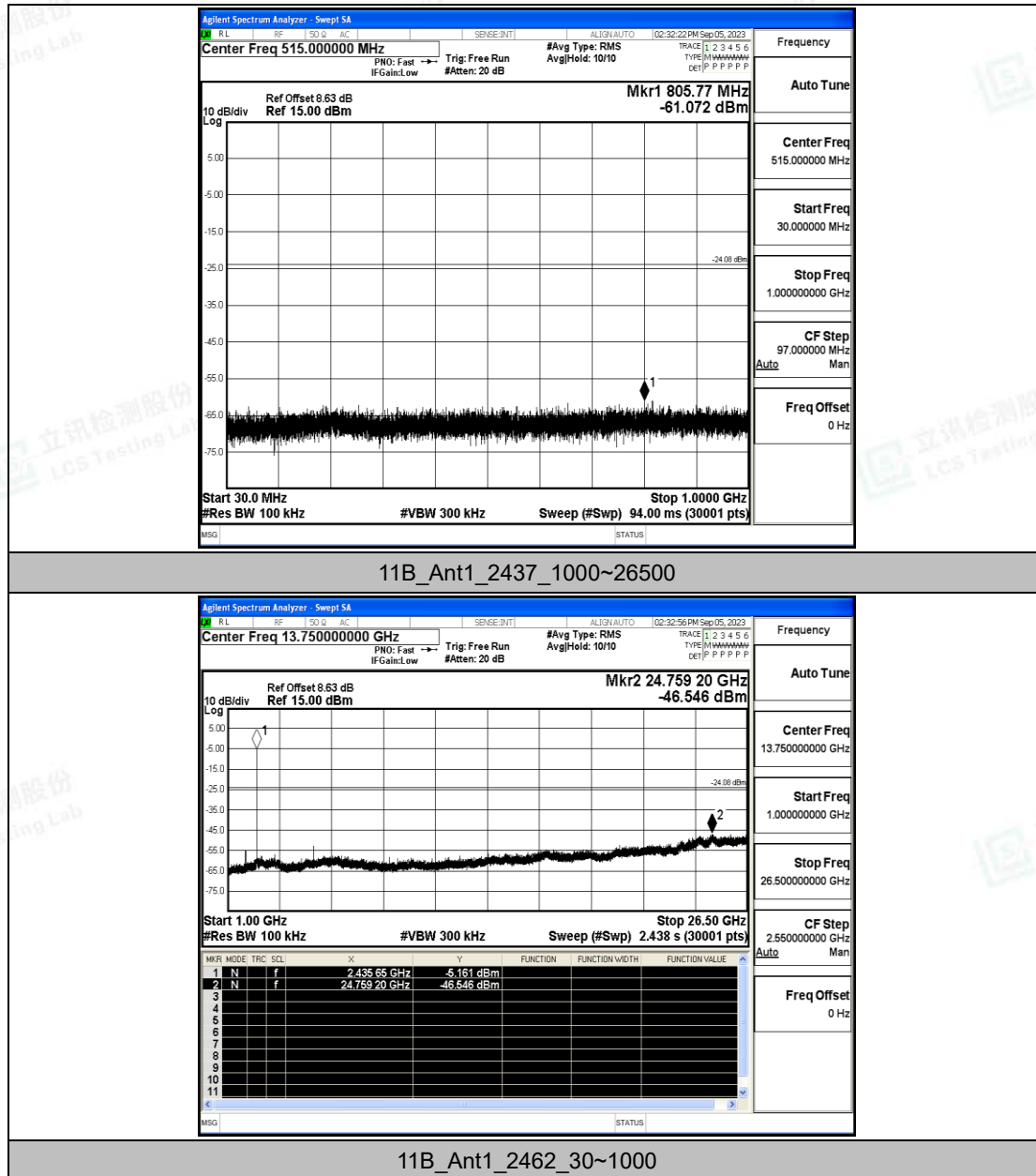
TestMode	Antenna	Freq(MHz)	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	30~1000	-4.05	-60.93	≤-24.05	PASS
			1000~26500	-4.05	-46.88	≤-24.05	PASS
		2437	30~1000	-4.08	-61.07	≤-24.08	PASS
			1000~26500	-4.08	-46.55	≤-24.08	PASS
		2462	30~1000	-5.09	-43.18	≤-25.09	PASS
			1000~26500	-5.09	-46.77	≤-25.09	PASS
11G	Ant1	2412	30~1000	-9.20	-61.36	≤-29.2	PASS
			1000~26500	-9.20	-46.58	≤-29.2	PASS
		2437	30~1000	-9.50	-61.24	≤-29.5	PASS
			1000~26500	-9.50	-47.14	≤-29.5	PASS
		2462	30~1000	-10.03	-61.21	≤-30.03	PASS
			1000~26500	-10.03	-46.59	≤-30.03	PASS
11N20SISO	Ant1	2412	30~1000	-9.05	-61.58	≤-29.05	PASS
			1000~26500	-9.05	-46.71	≤-29.05	PASS
		2437	30~1000	-8.86	-61.08	≤-28.86	PASS
			1000~26500	-8.86	-47.1	≤-28.86	PASS
		2462	30~1000	-9.77	-60.97	≤-29.77	PASS
			1000~26500	-9.77	-46.5	≤-29.77	PASS
11N40SISO	Ant1	2422	30~1000	-12.07	-60.4	≤-32.07	PASS
			1000~26500	-12.07	-46.96	≤-32.07	PASS
		2437	30~1000	-11.90	-61.45	≤-31.9	PASS
			1000~26500	-11.90	-46.62	≤-31.9	PASS
		2452	30~1000	-12.43	-61.37	≤-32.43	PASS
			1000~26500	-12.43	-47.33	≤-32.43	PASS

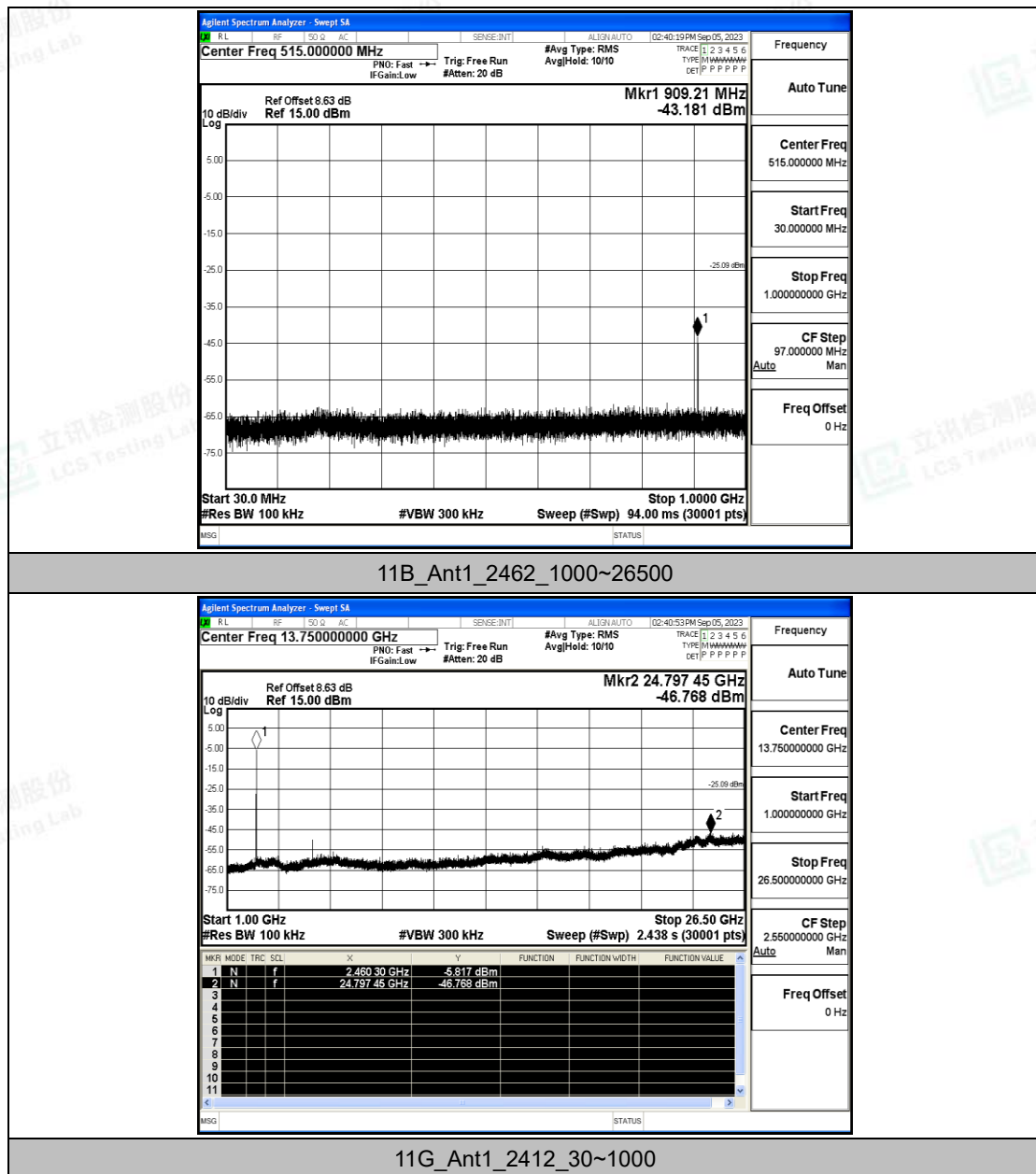


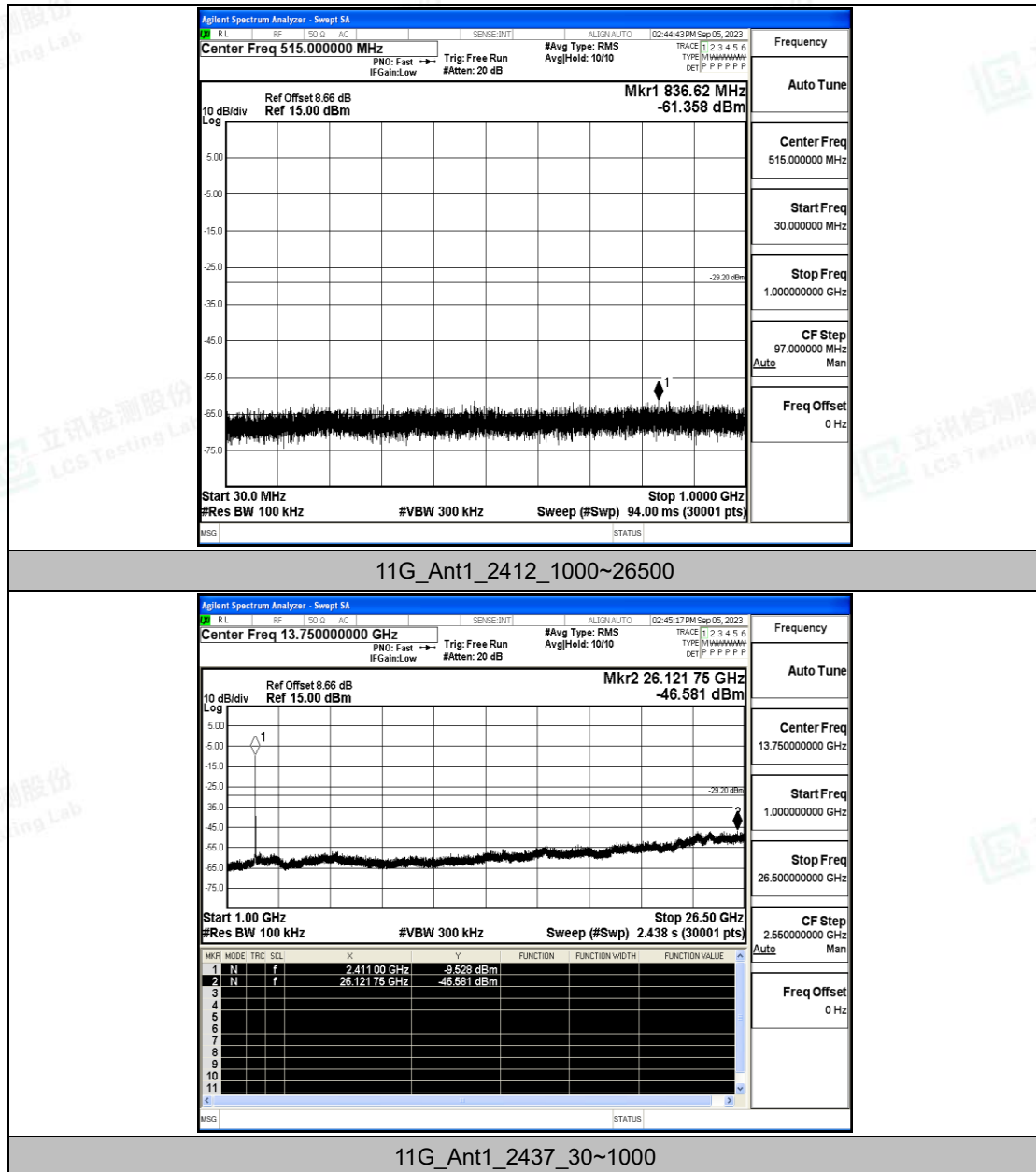


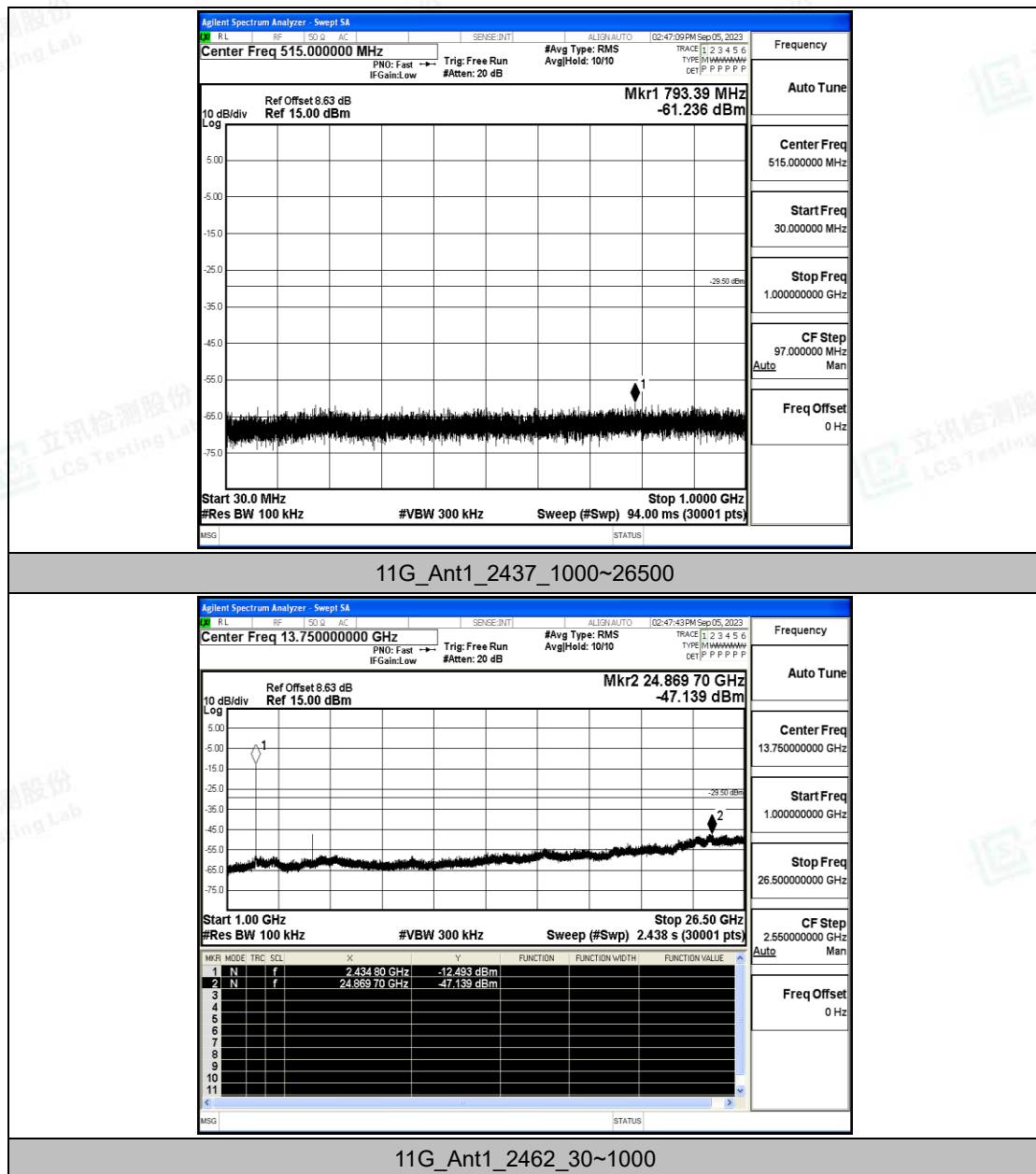
Test Graphs

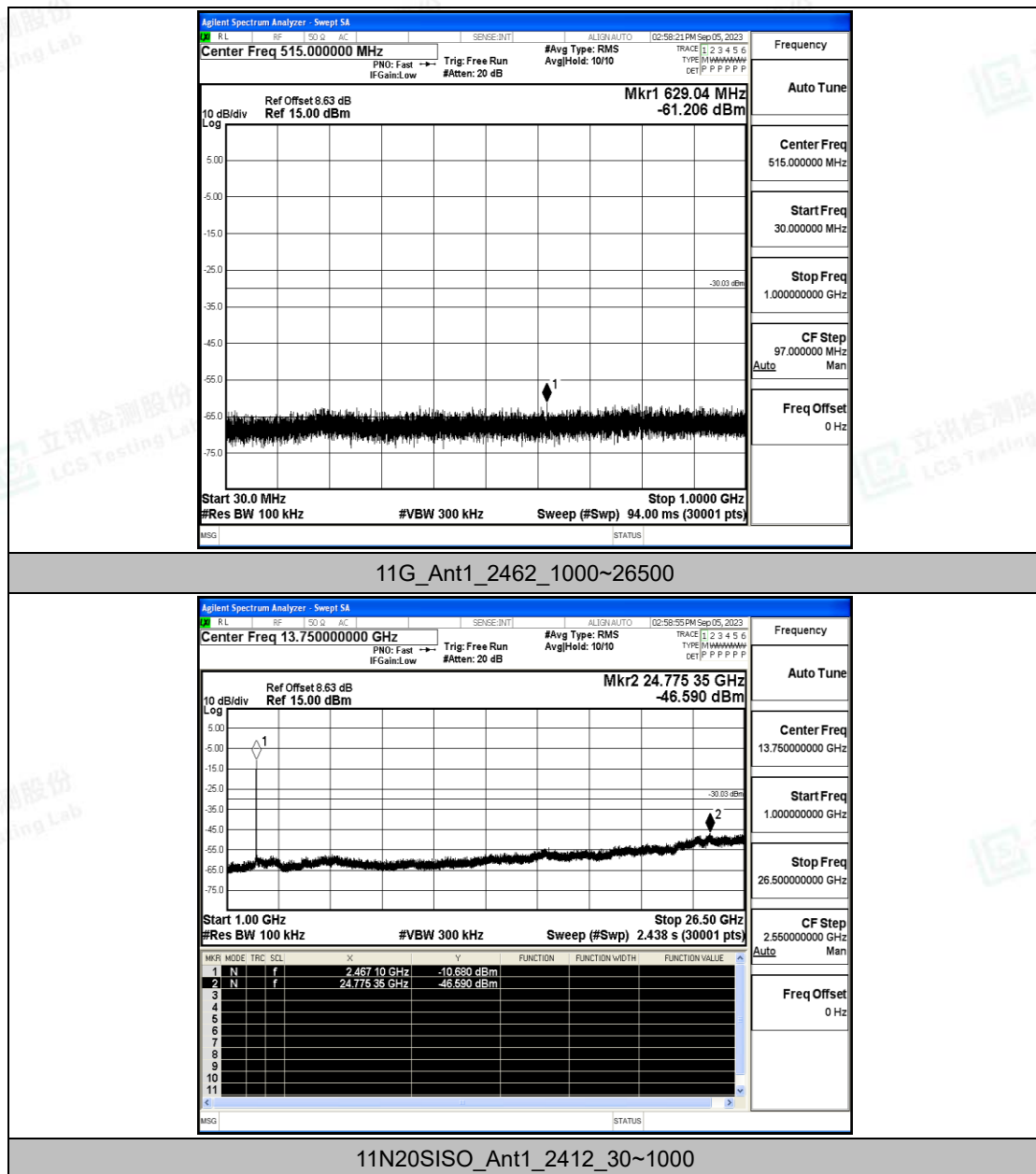


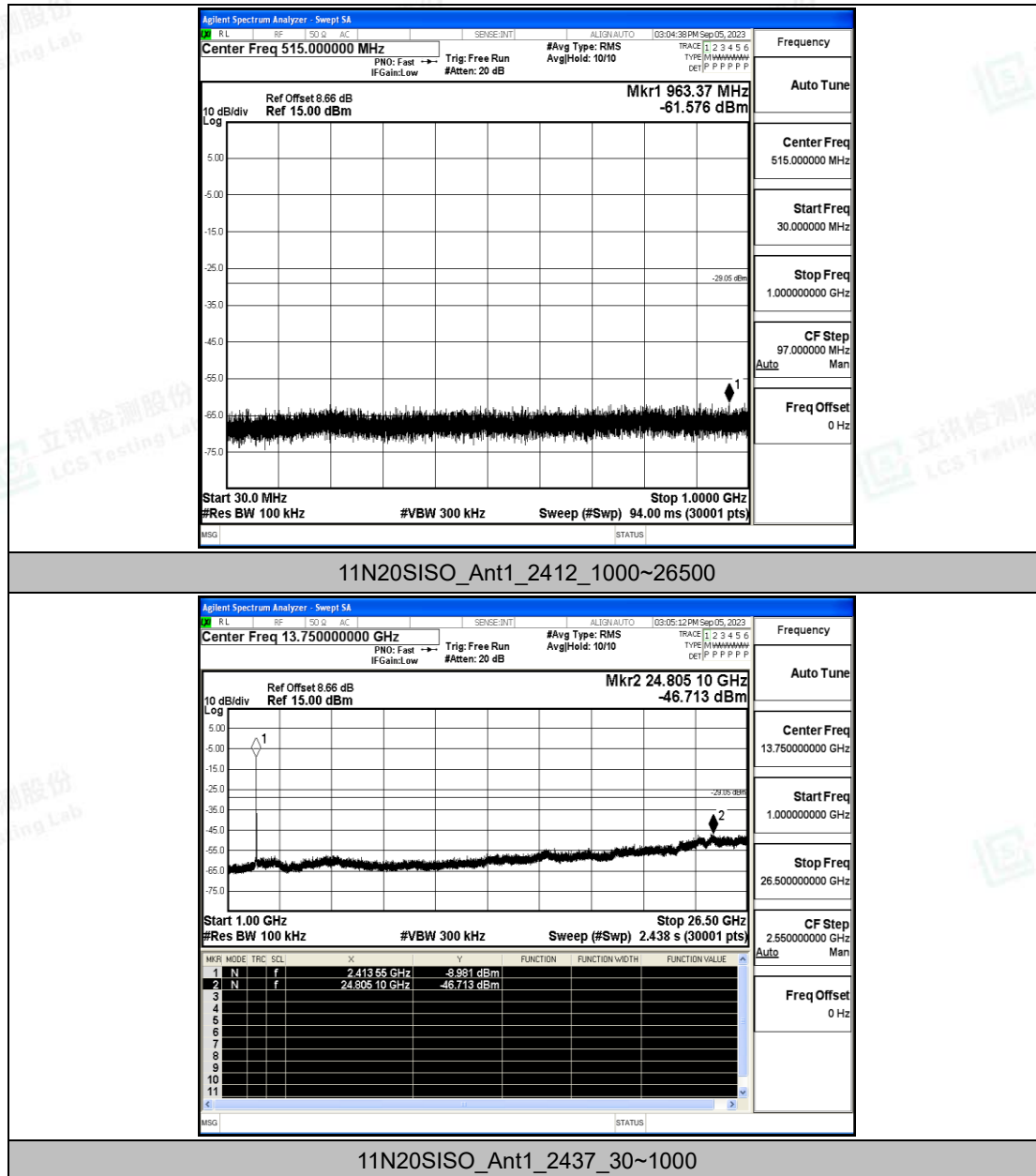


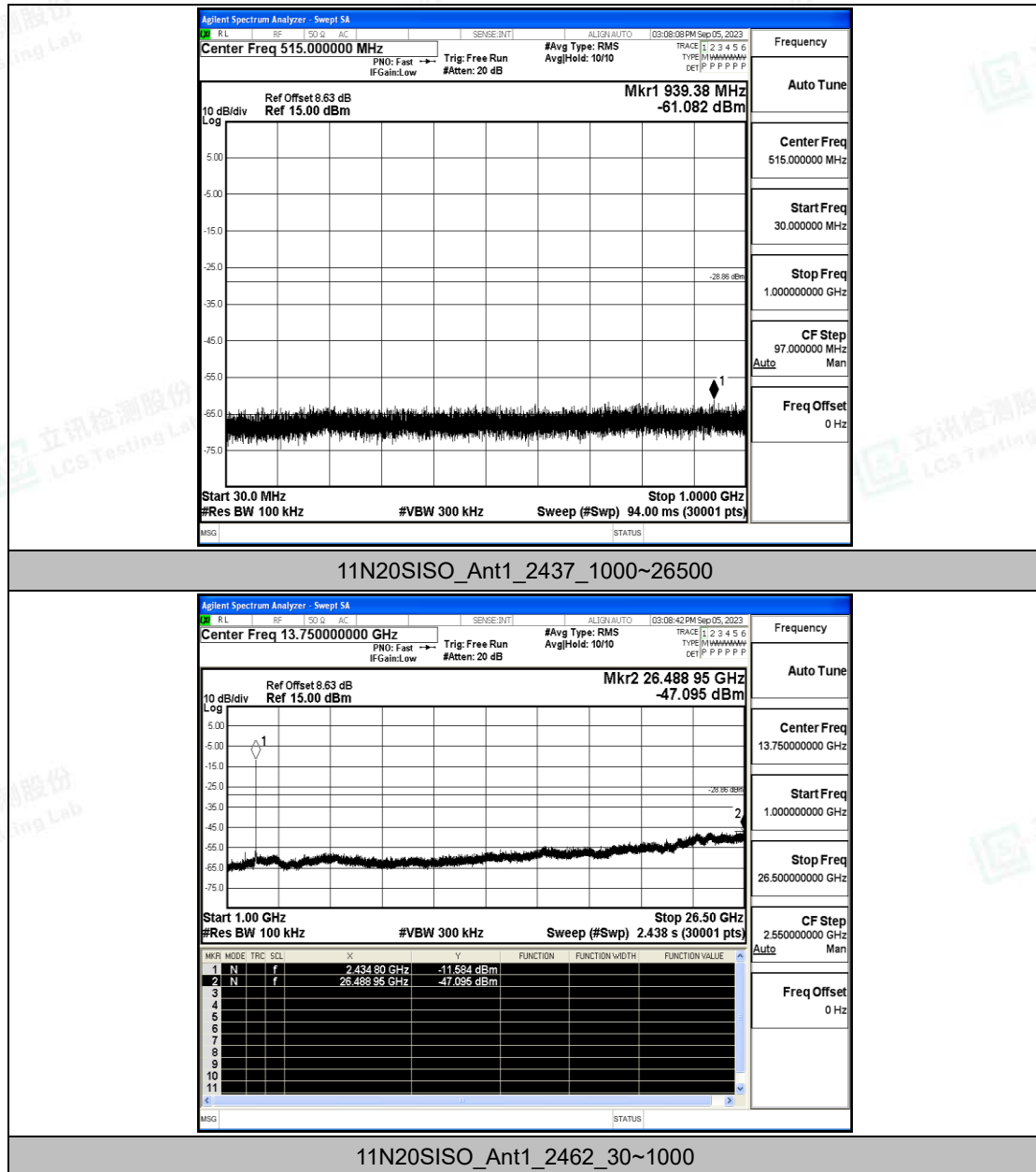


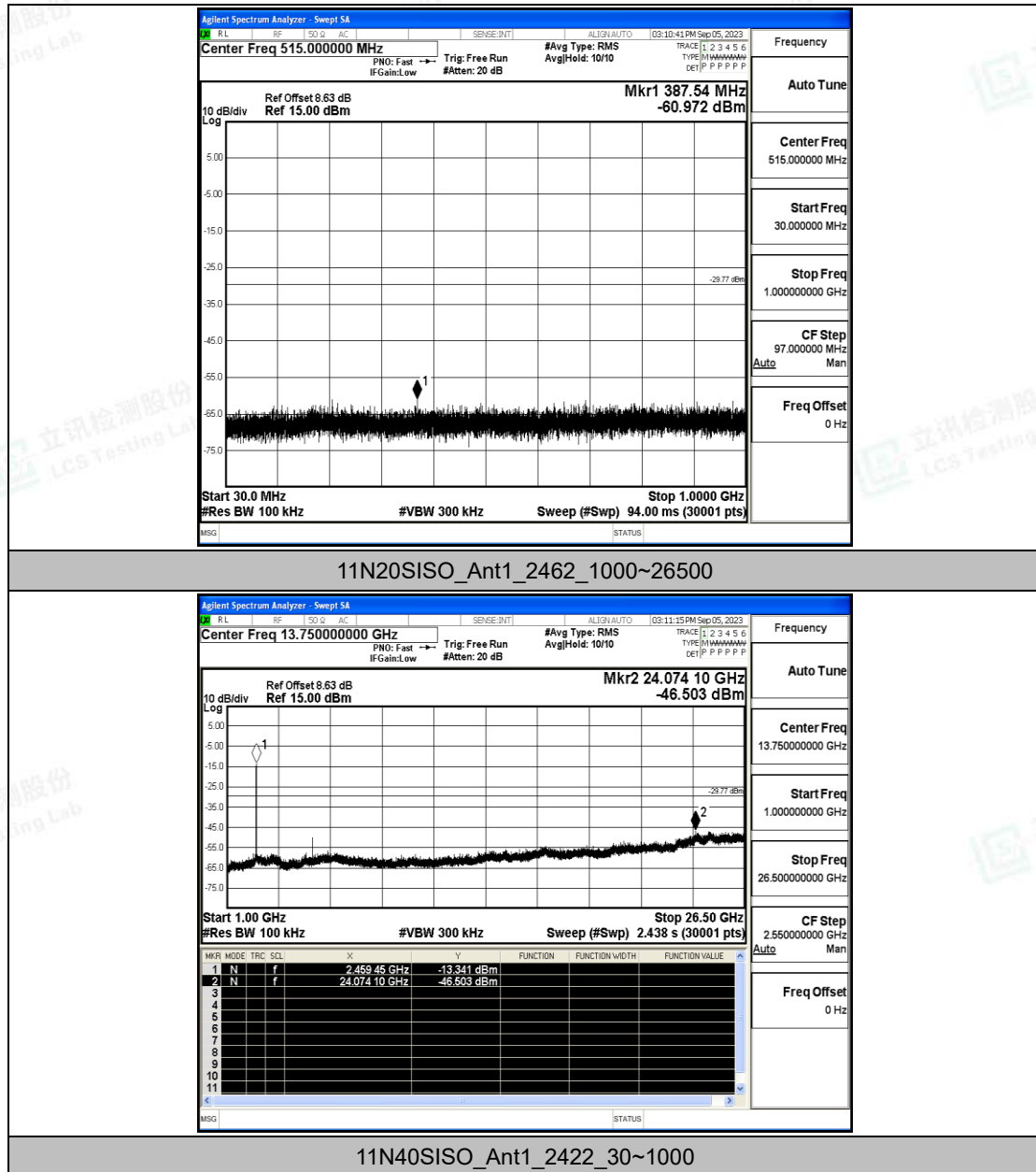


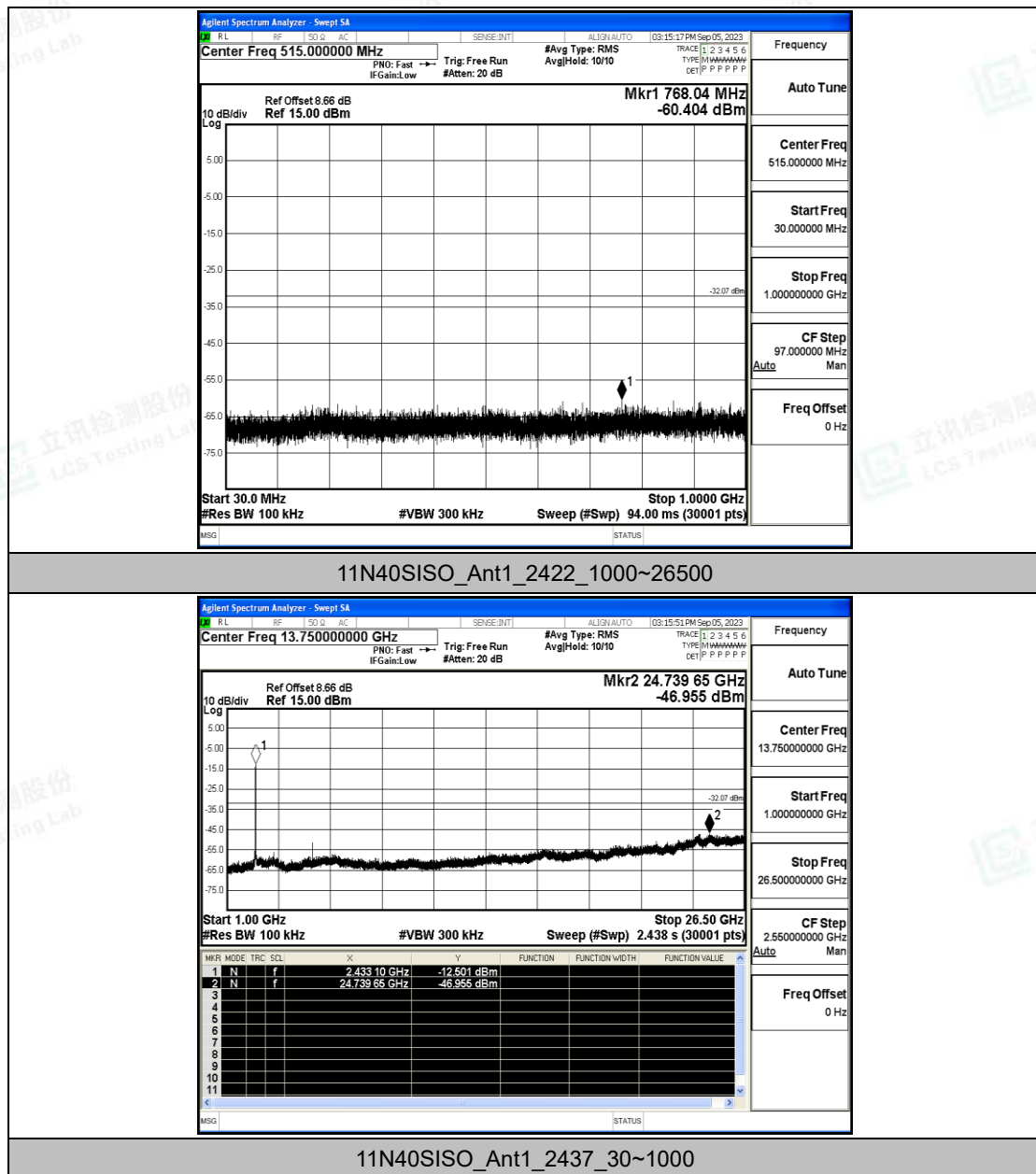


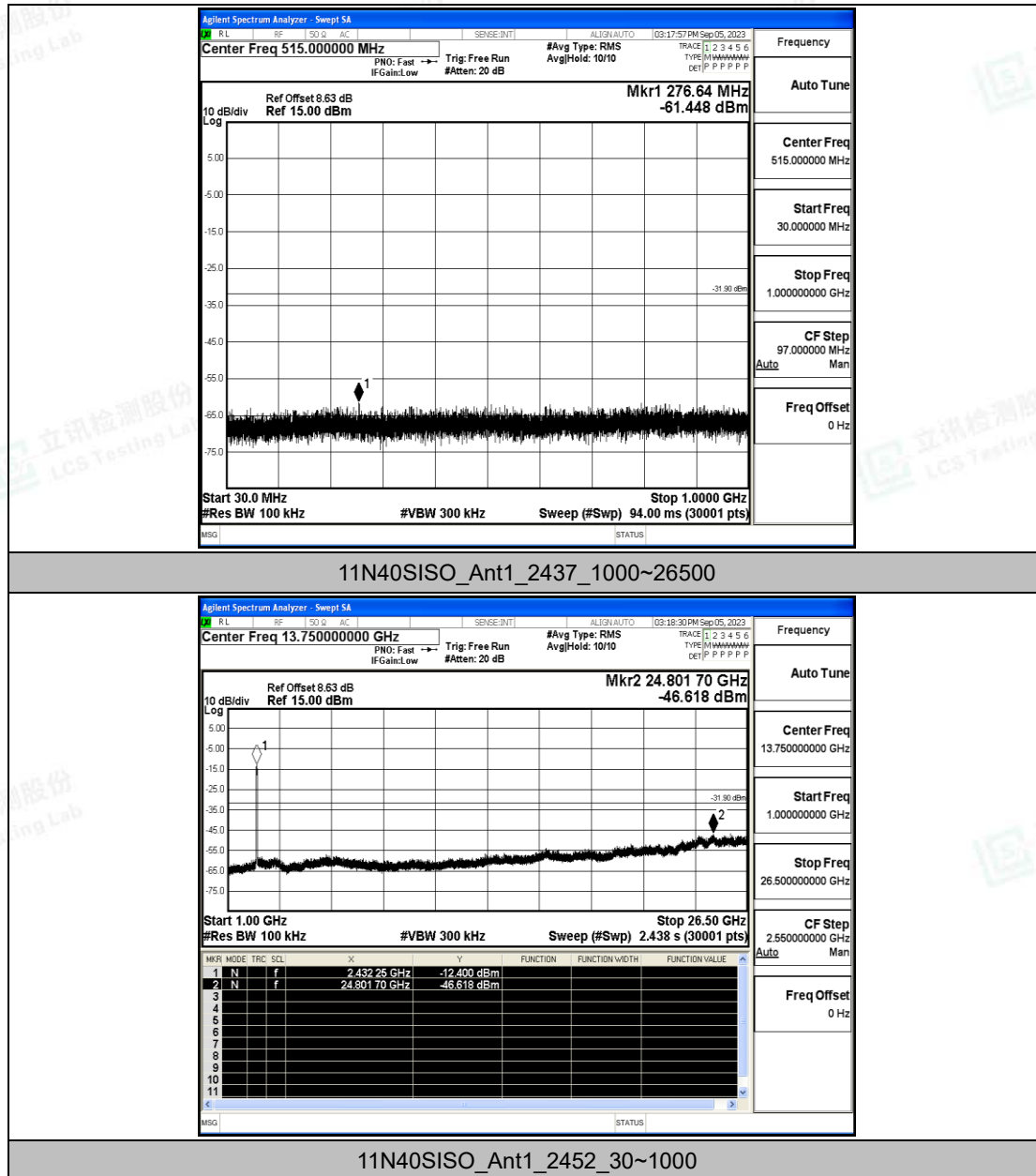


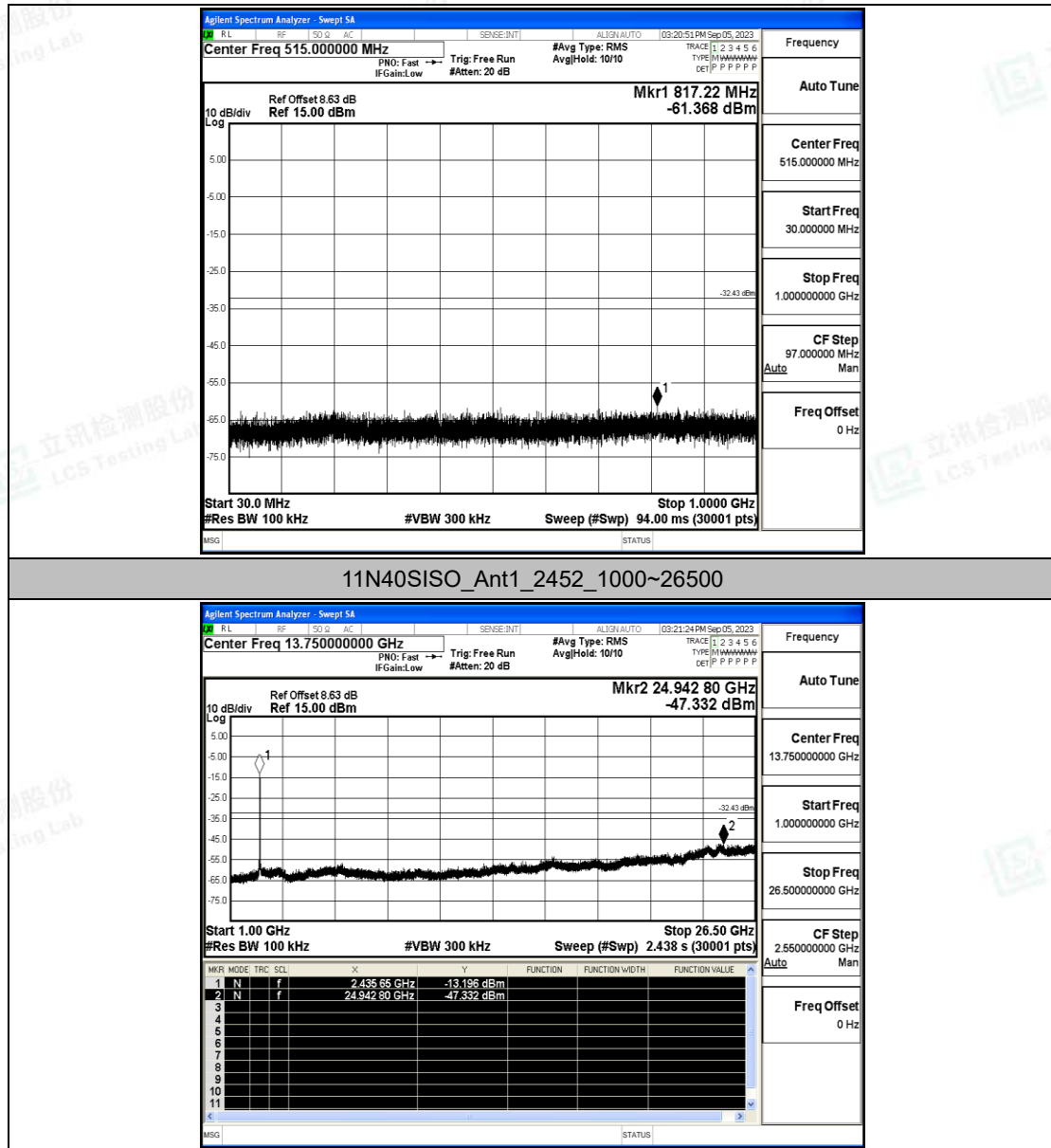














A.6 Duty Cycle

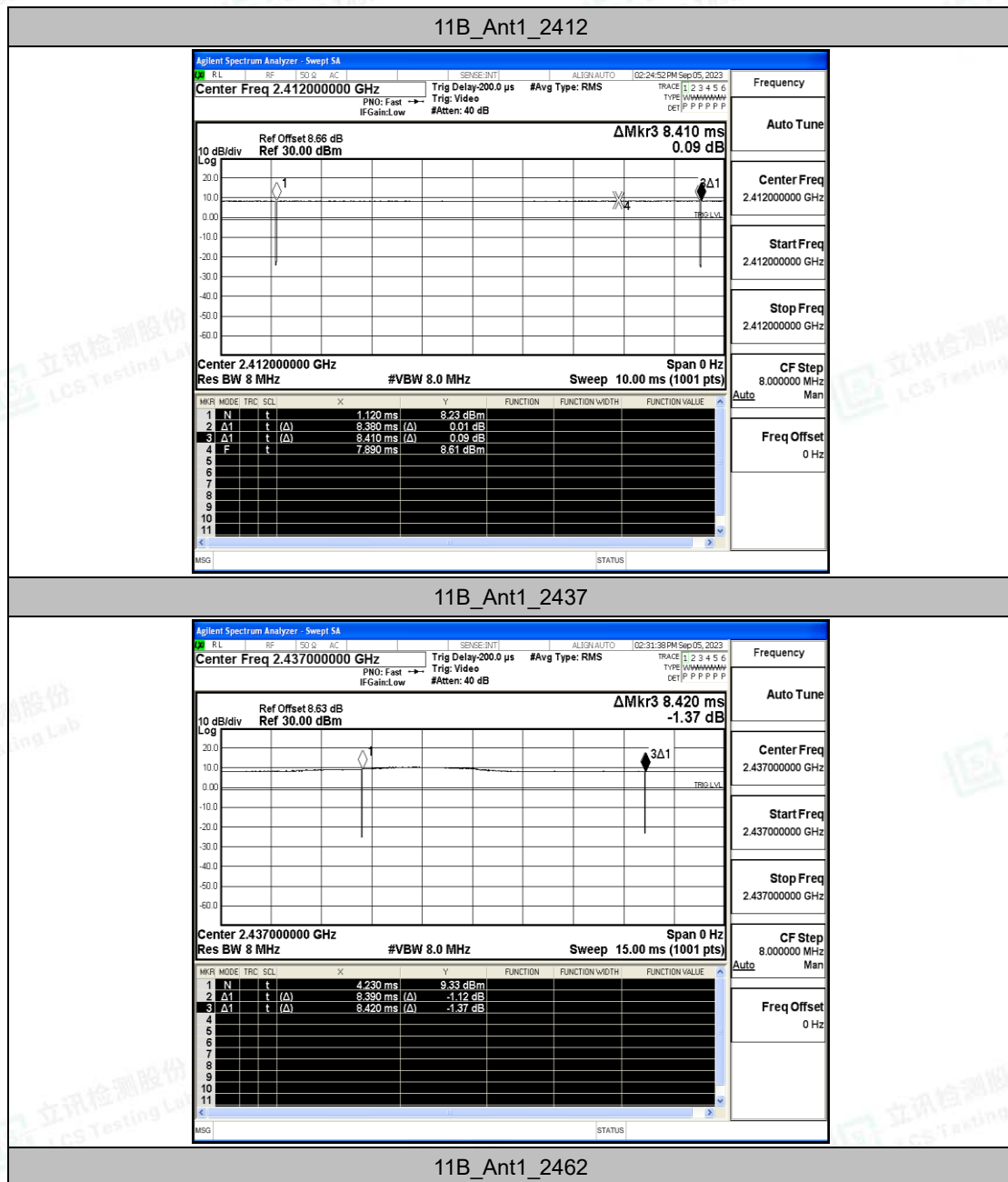
Test Result

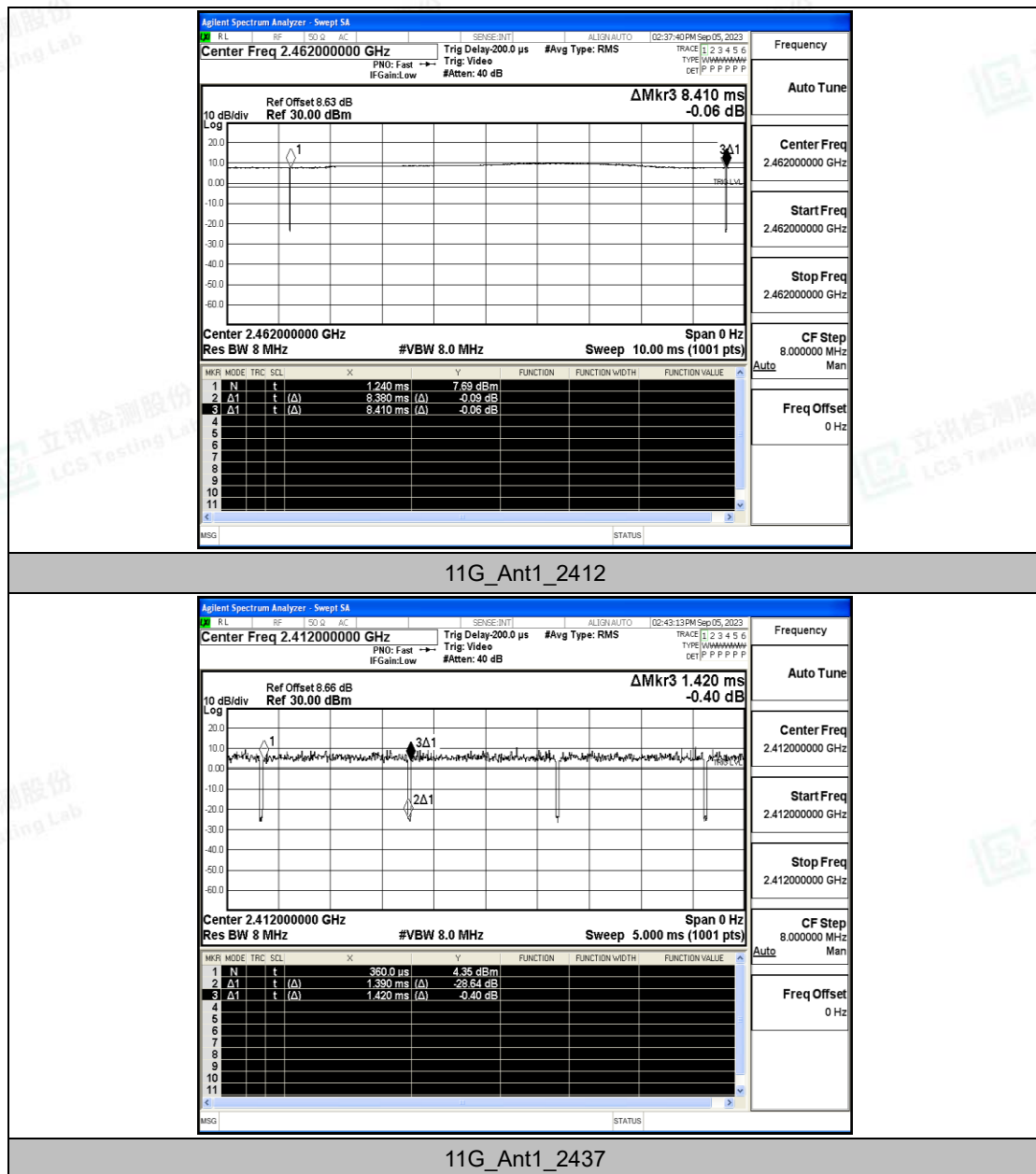
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor	Verdict
11B	Ant1	2412	8.38	8.41	99.64	0.02	---
		2437	8.39	8.42	99.64	0.02	---
		2462	8.38	8.41	99.64	0.02	---
11G	Ant1	2412	1.39	1.42	97.89	0.09	---
		2437	1.39	1.43	97.20	0.12	---
		2462	1.39	1.43	97.20	0.12	---
11N20SISO	Ant1	2412	1.30	1.34	97.01	0.13	---
		2437	1.30	1.34	97.01	0.13	---
		2462	1.30	1.34	97.01	0.13	---
11N40SISO	Ant1	2422	0.64	0.68	94.12	0.26	---
		2437	0.64	0.68	94.12	0.26	---
		2452	0.65	0.68	95.59	0.20	---

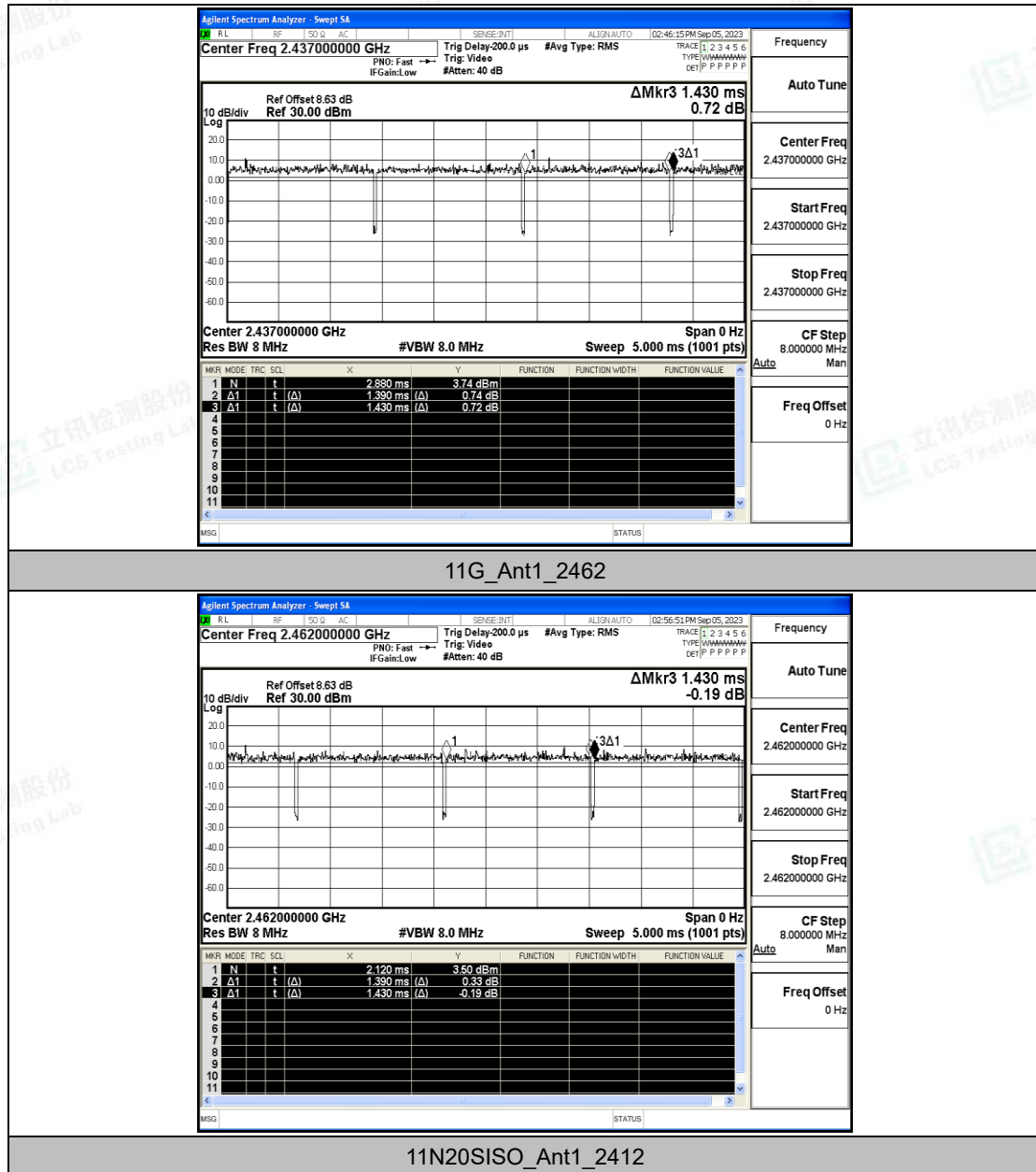


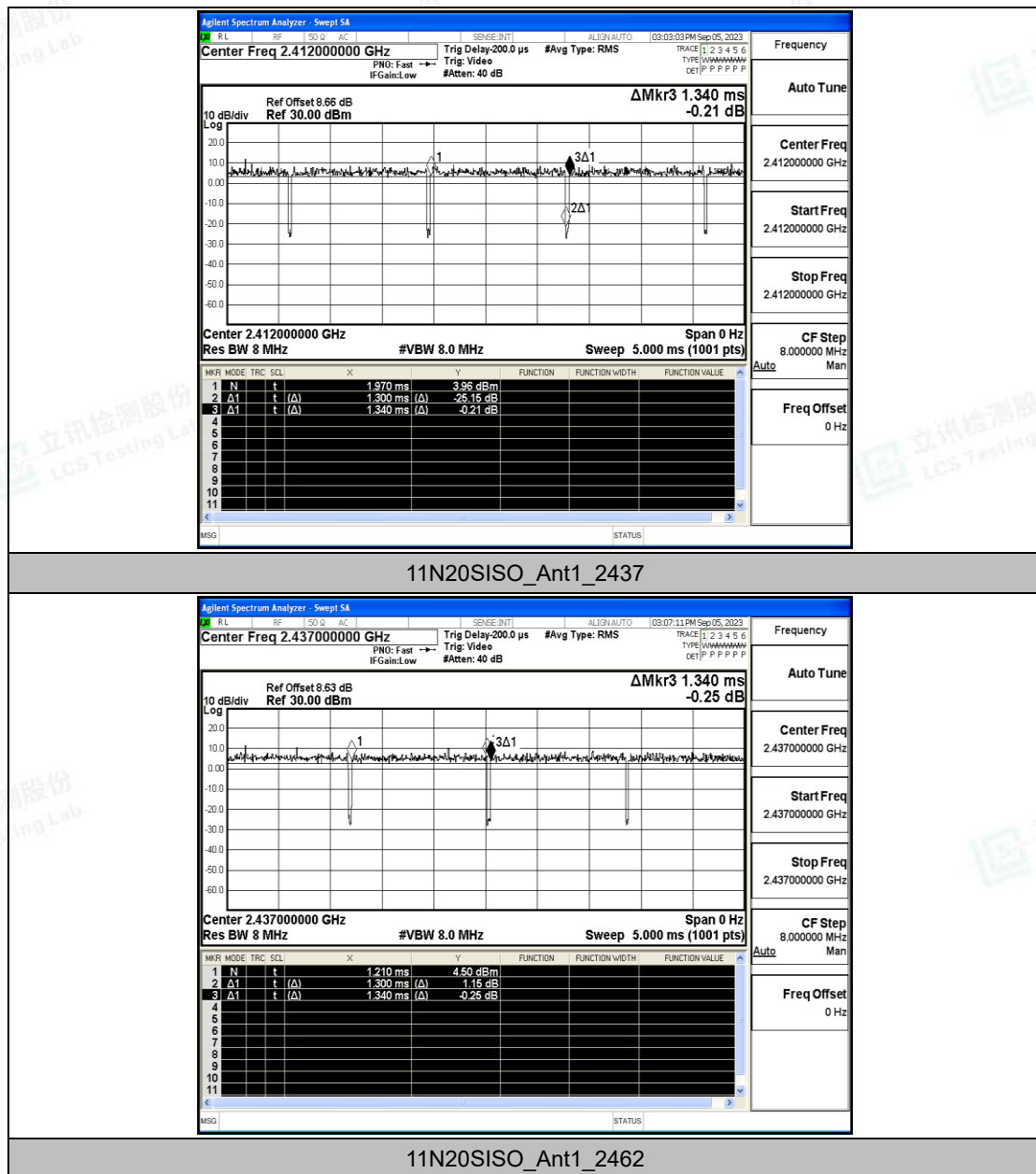


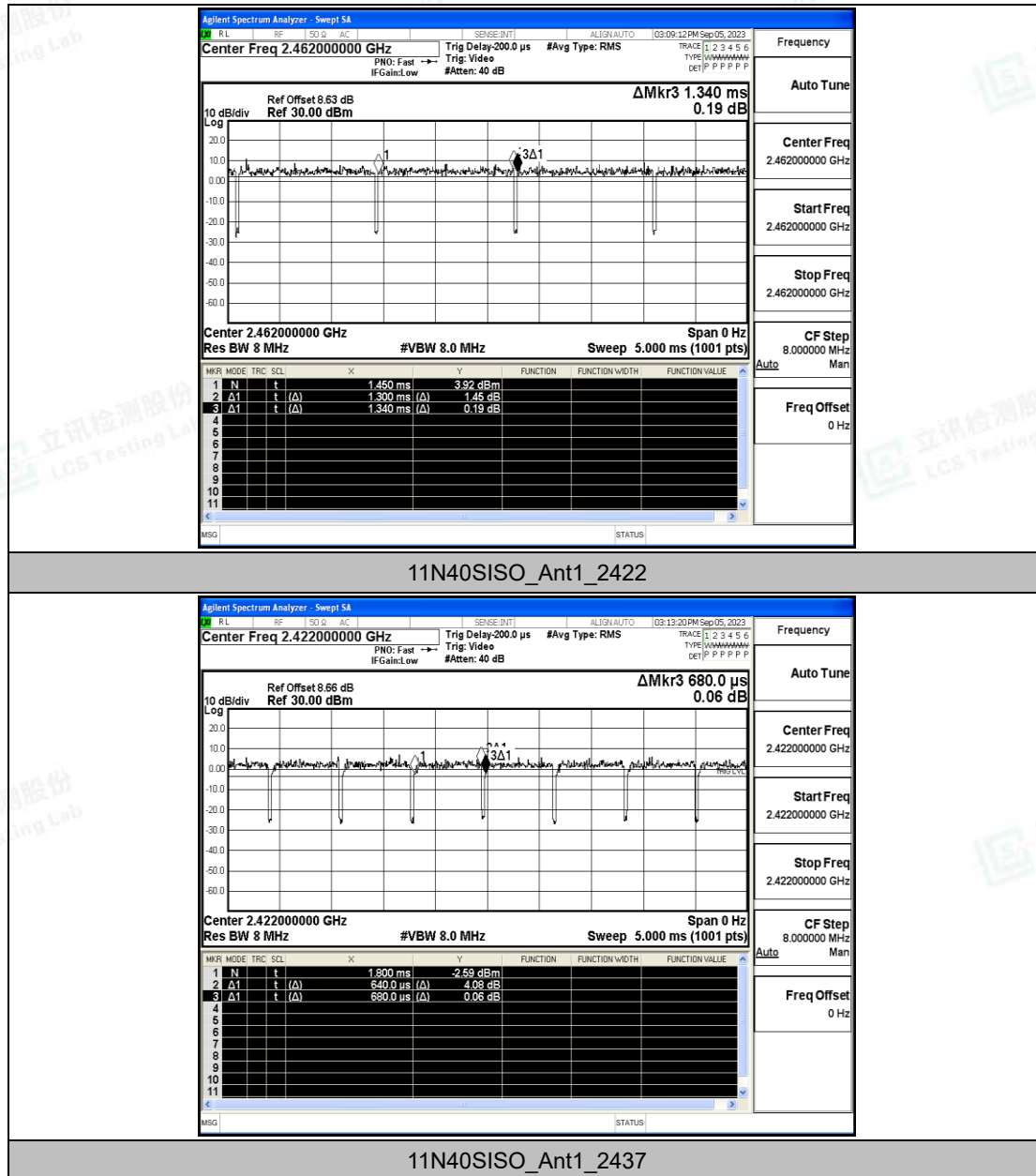
Test Graphs

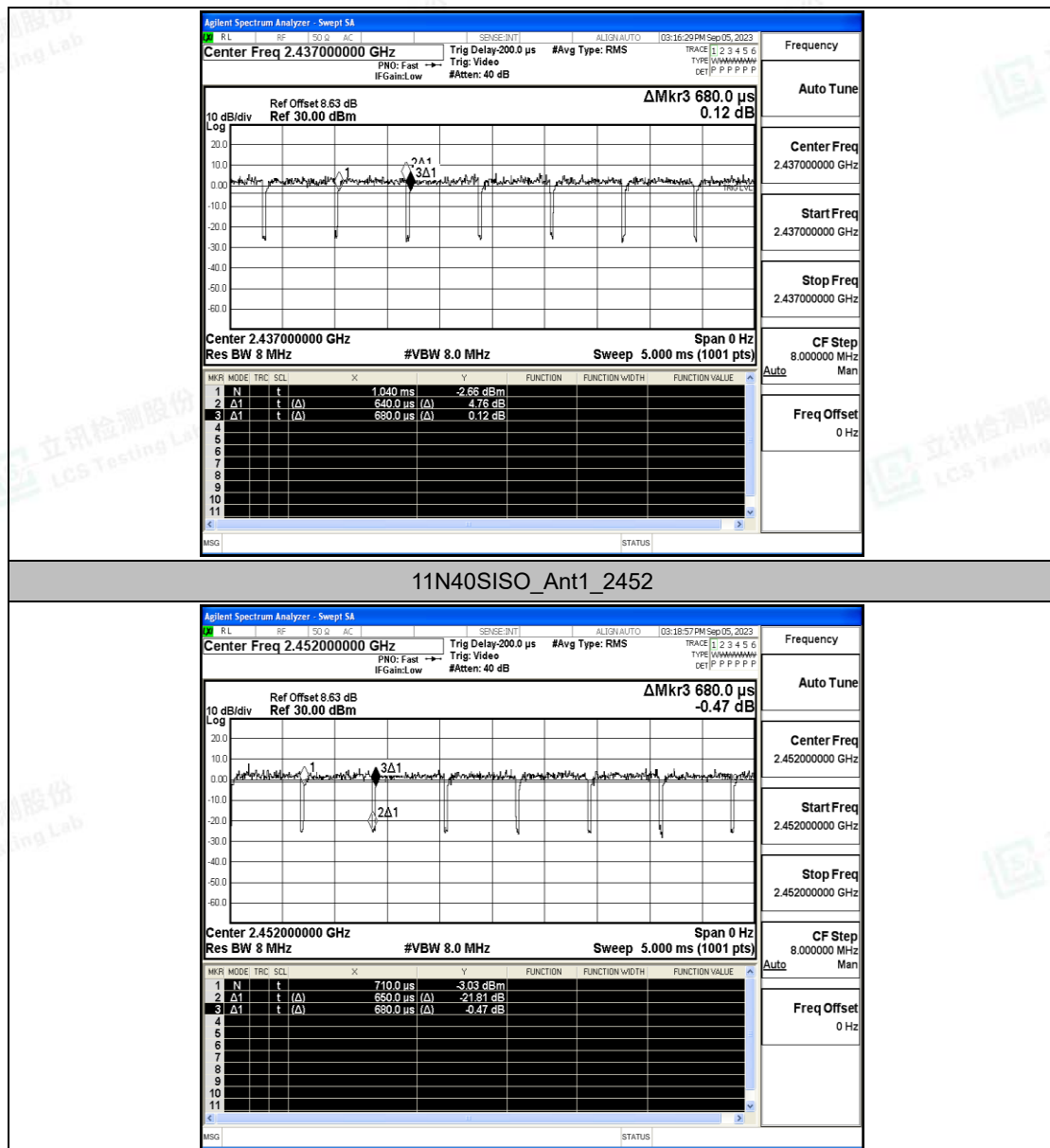














A.7 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-48.44	≤-41.20	46.76	≤54	PASS
				AV	2389.830	-47.95	≤-41.20	47.25	≤54	PASS
				AV	2390.000	-47.97	≤-41.20	47.23	≤54	PASS
				Peak	2310.000	-42.56	≤-21.20	52.64	≤74	PASS
				Peak	2378.650	-38.55	≤-21.20	56.65	≤74	PASS
				Peak	2390.000	-42.39	≤-21.20	52.81	≤74	PASS
		High	2462	AV	2483.500	-47.71	≤-41.20	47.49	≤54	PASS
				AV	2499.620	-47.46	≤-41.20	47.74	≤54	PASS
				AV	2500.000	-47.48	≤-41.20	47.72	≤54	PASS
				Peak	2483.500	-42.06	≤-21.20	53.14	≤74	PASS
				Peak	2494.120	-37.65	≤-21.20	57.55	≤74	PASS
				Peak	2500.000	-40.82	≤-21.20	54.38	≤74	PASS
11G	Ant1	Low	2412	AV	2310.000	-47.77	≤-41.20	47.43	≤54	PASS
				AV	2386.320	-47.15	≤-41.20	48.05	≤54	PASS
				AV	2390.000	-47.32	≤-41.20	47.88	≤54	PASS
				Peak	2310.000	-40.28	≤-21.20	54.92	≤74	PASS
				Peak	2360.840	-38.43	≤-21.20	56.77	≤74	PASS
				Peak	2390.000	-40.83	≤-21.20	54.37	≤74	PASS
		High	2462	AV	2483.500	-46.85	≤-41.20	48.35	≤54	PASS
				AV	2496.100	-46.56	≤-41.20	48.64	≤54	PASS
				AV	2500.000	-46.85	≤-41.20	48.35	≤54	PASS
				Peak	2483.500	-40.31	≤-21.20	54.89	≤74	PASS
				Peak	2490.490	-37.8	≤-21.20	57.40	≤74	PASS
				Peak	2500.000	-40.06	≤-21.20	55.14	≤74	PASS
11N20SI SO	Ant1	Low	2412	AV	2310.000	-47.82	≤-41.20	47.38	≤54	PASS
				AV	2389.830	-47.07	≤-41.20	48.13	≤54	PASS
				AV	2390.000	-47.16	≤-41.20	48.04	≤54	PASS
				Peak	2310.000	-41.51	≤-21.20	53.69	≤74	PASS
				Peak	2354.080	-38.44	≤-21.20	56.76	≤74	PASS
				Peak	2390.000	-39.57	≤-21.20	55.63	≤74	PASS
		High	2462	AV	2483.500	-46.97	≤-41.20	48.23	≤54	PASS
				AV	2497.860	-46.68	≤-41.20	48.52	≤54	PASS
				AV	2500.000	-46.81	≤-41.20	48.39	≤54	PASS
				Peak	2483.500	-41.59	≤-21.20	53.61	≤74	PASS
				Peak	2496.430	-38.66	≤-21.20	56.54	≤74	PASS



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11N40SI SO	Ant1	Low	2422	Peak	2500.000	-39.94	≤ -21.20	55.26	≤ 74	PASS
				AV	2310.000	-47.4	≤ -41.20	47.80	≤ 54	PASS
				AV	2389.960	-46.45	≤ -41.20	48.75	≤ 54	PASS
				AV	2390.000	-46.45	≤ -41.20	48.75	≤ 54	PASS
				Peak	2310.000	-41.69	≤ -21.20	53.51	≤ 74	PASS
				Peak	2376.310	-37.53	≤ -21.20	57.67	≤ 74	PASS
		High	2452	Peak	2390.000	-41.64	≤ -21.20	53.56	≤ 74	PASS
				AV	2483.500	-46.45	≤ -41.20	48.75	≤ 54	PASS
				AV	2484.550	-46.21	≤ -41.20	48.99	≤ 54	PASS
				AV	2500.000	-46.76	≤ -41.20	48.44	≤ 54	PASS
				Peak	2483.500	-38.69	≤ -21.20	56.51	≤ 74	PASS
				Peak	2485.210	-36.66	≤ -21.20	58.54	≤ 74	PASS
				Peak	2500.000	-39.65	≤ -21.20	55.55	≤ 74	PASS

Note:

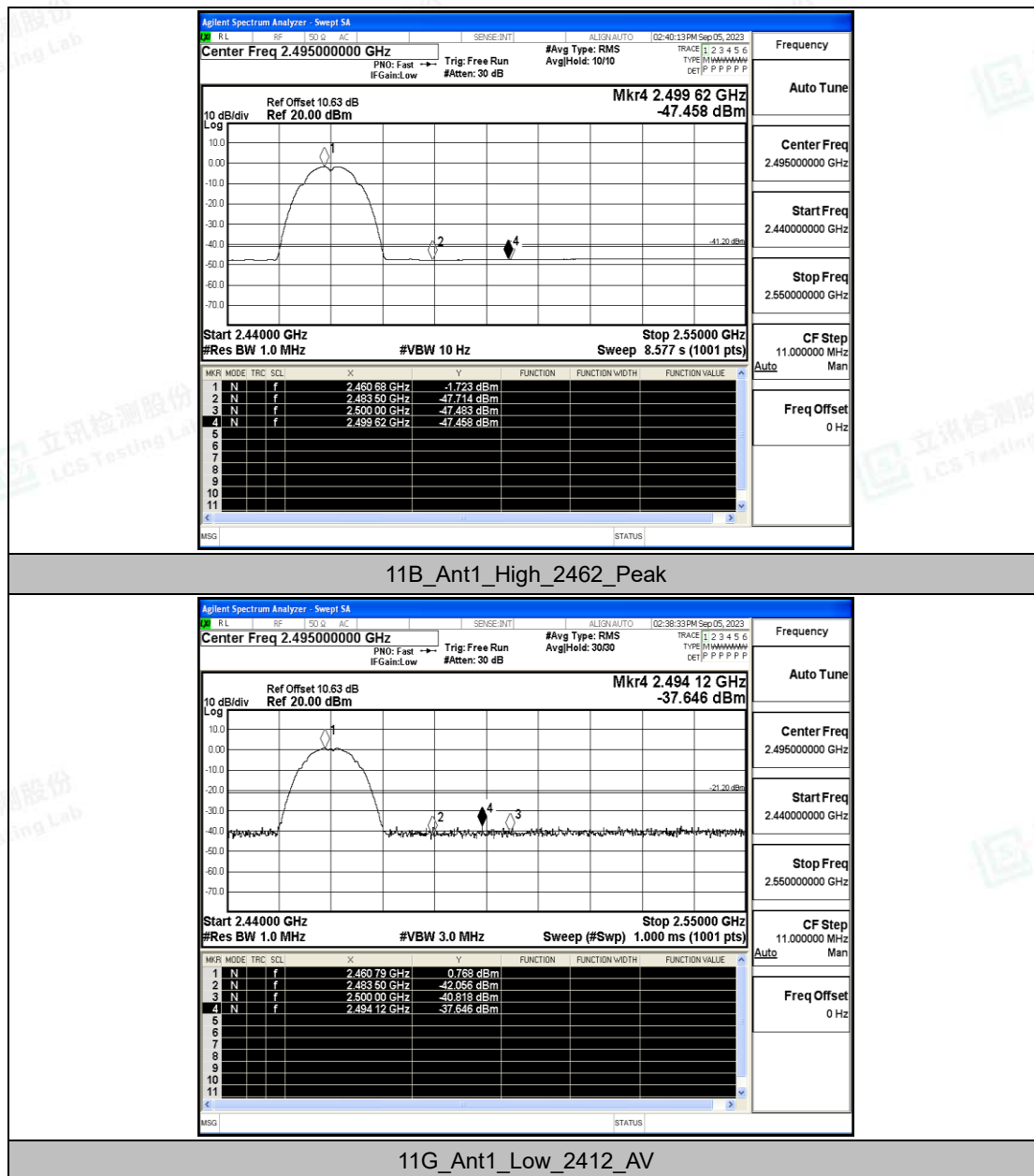
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

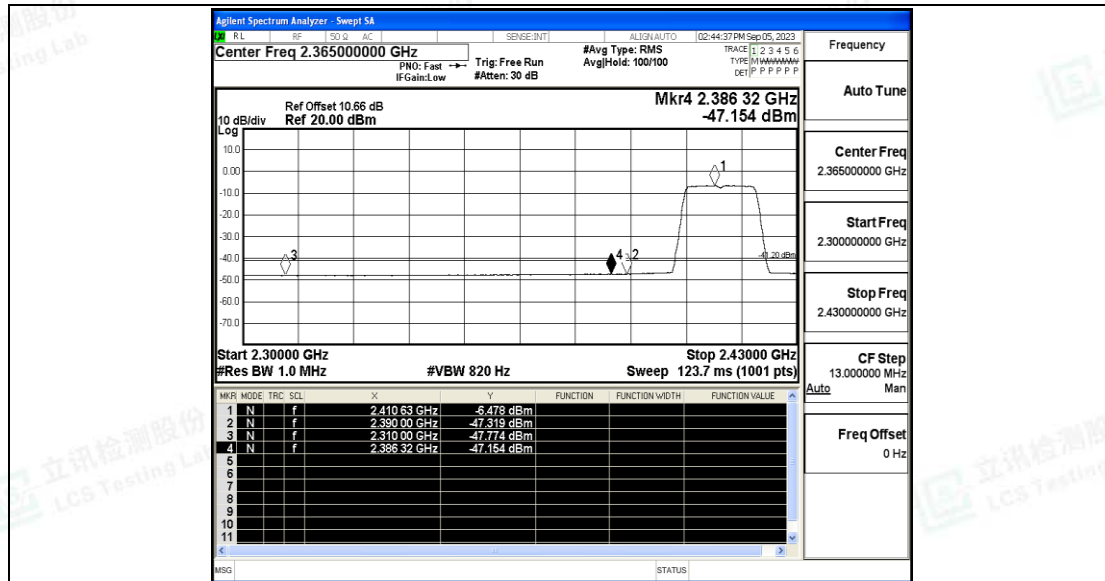




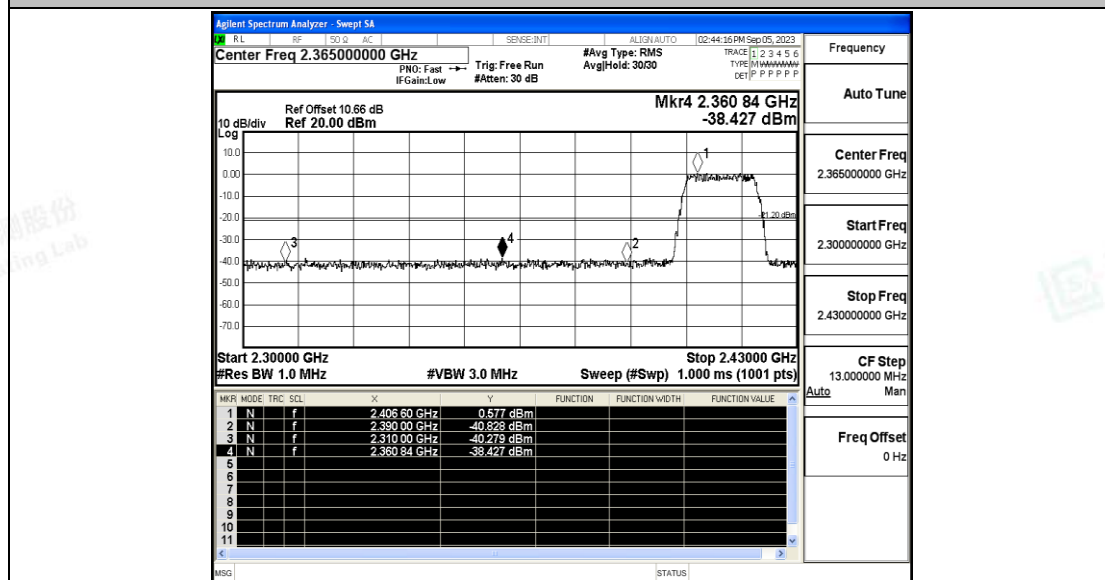
Test Graphs





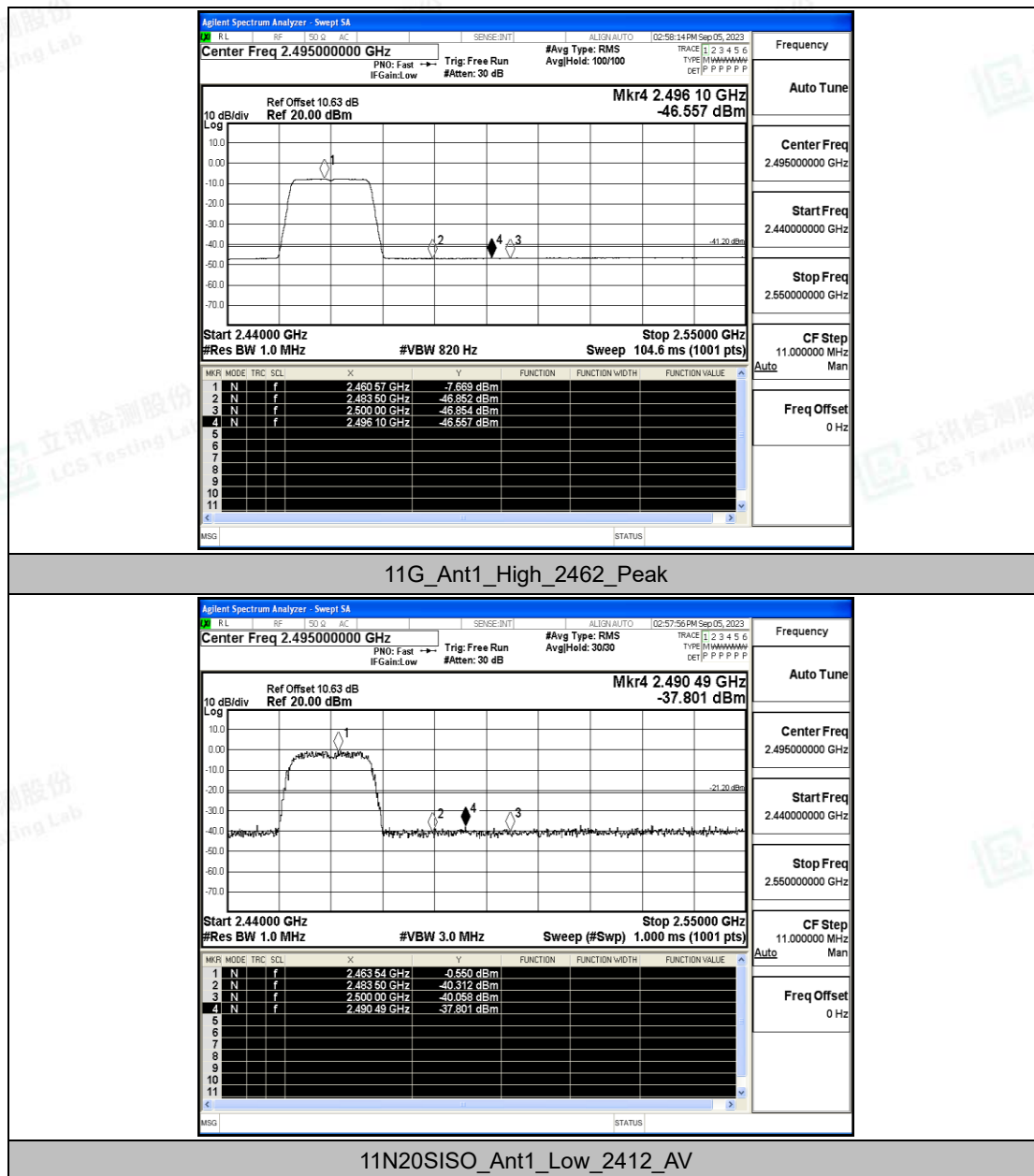


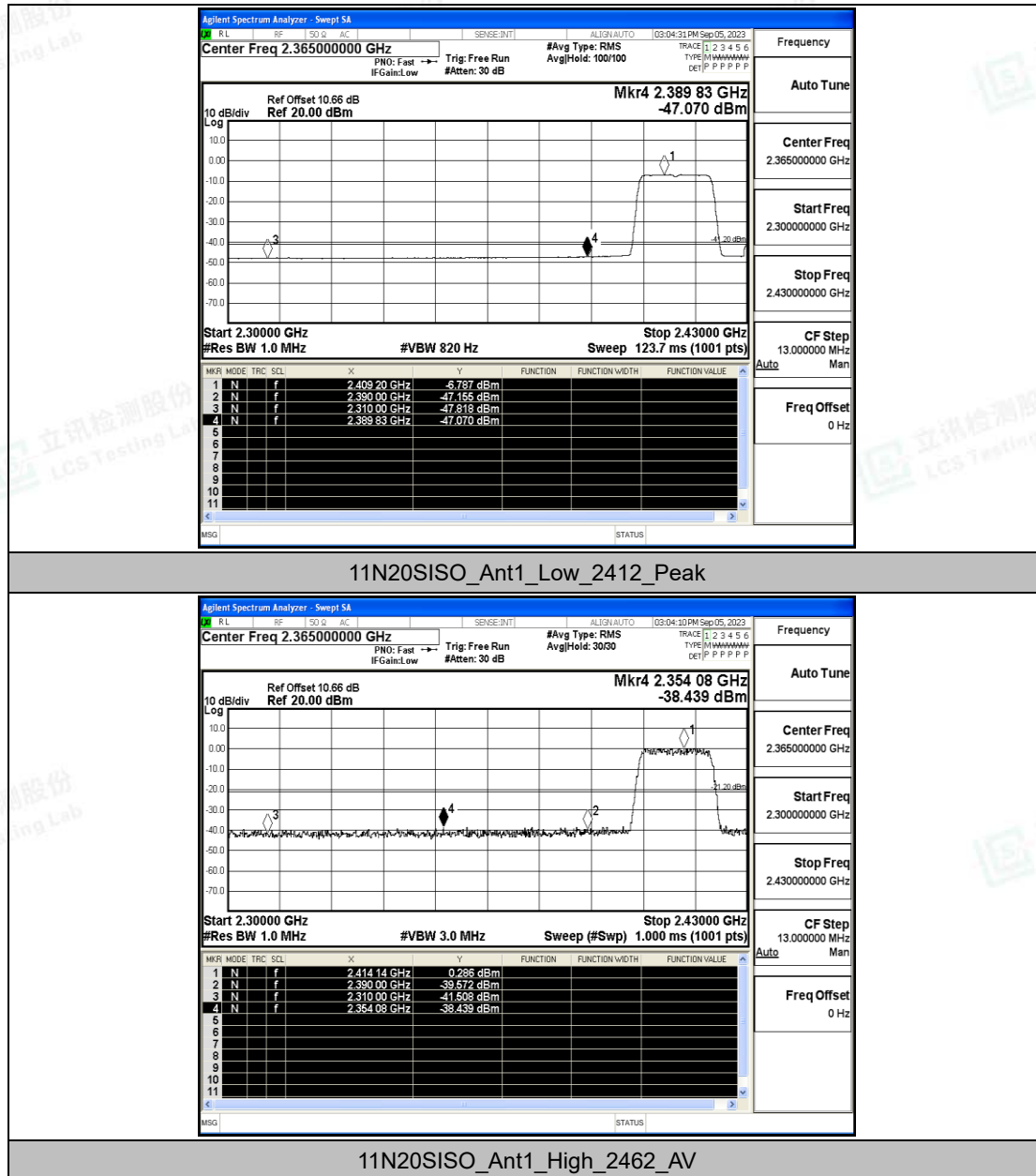
11G_Ant1_Low_2412_Peak

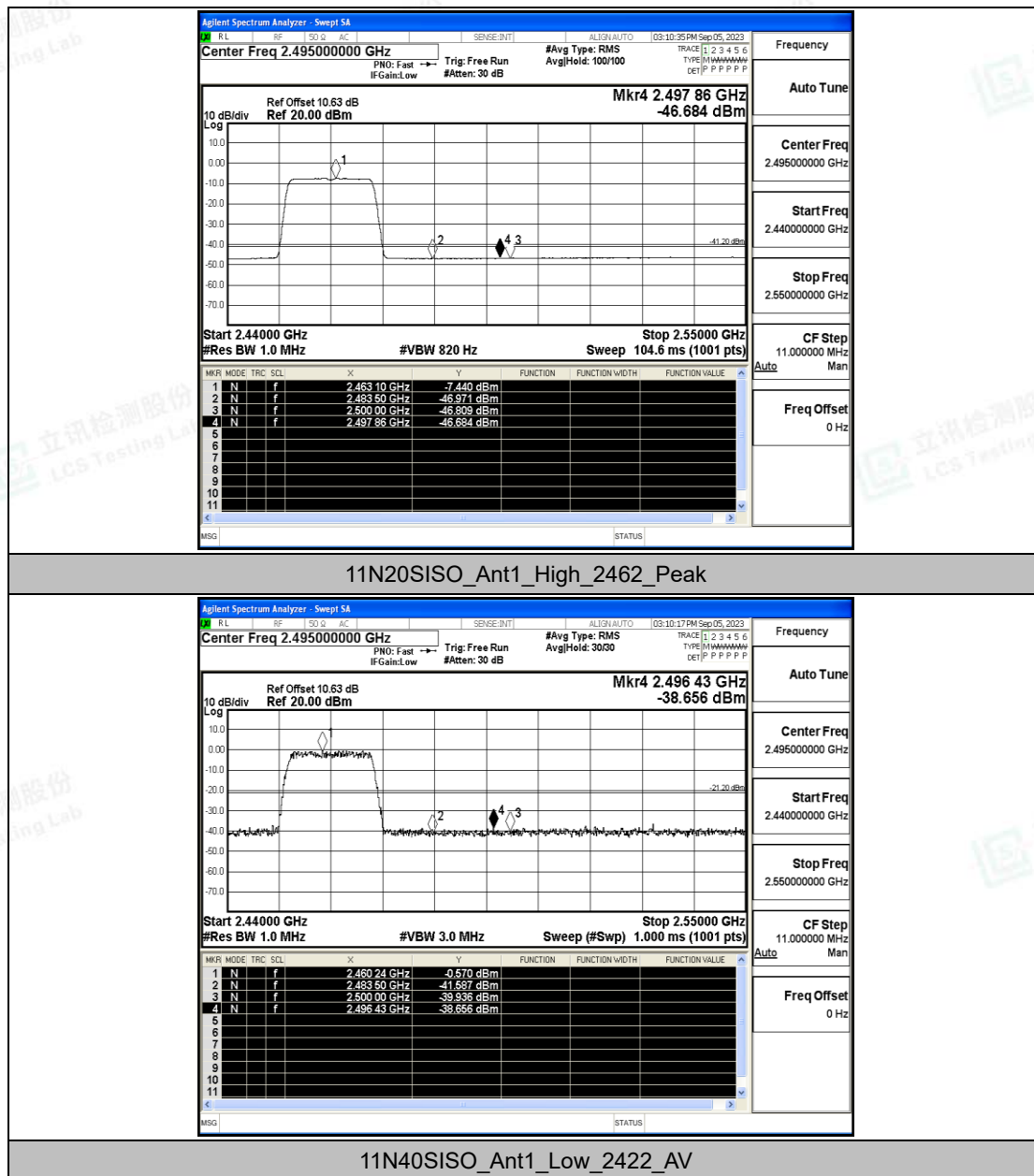


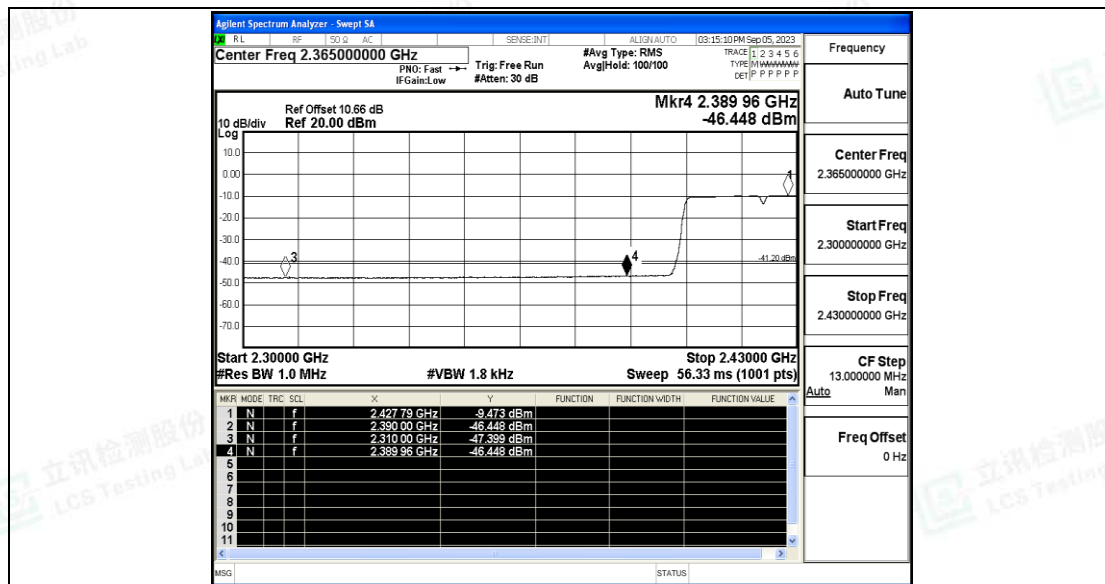
11G_Ant1_High_2462_AV



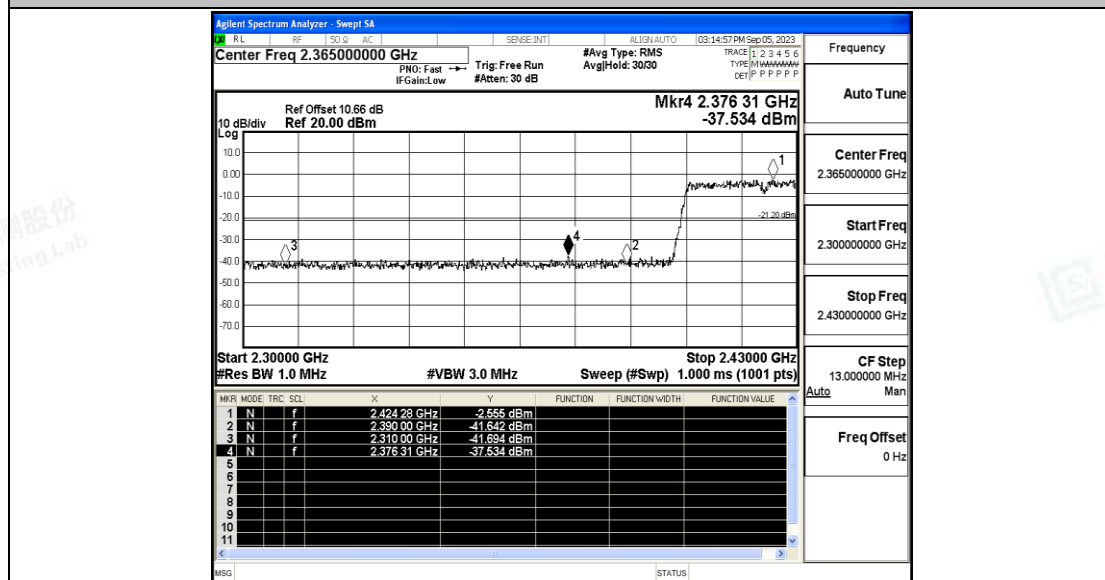








11N40SISO_Ant1_Low_2422_Peak



11N40SISO_Ant1_High_2452_AV



